

Fig. 1

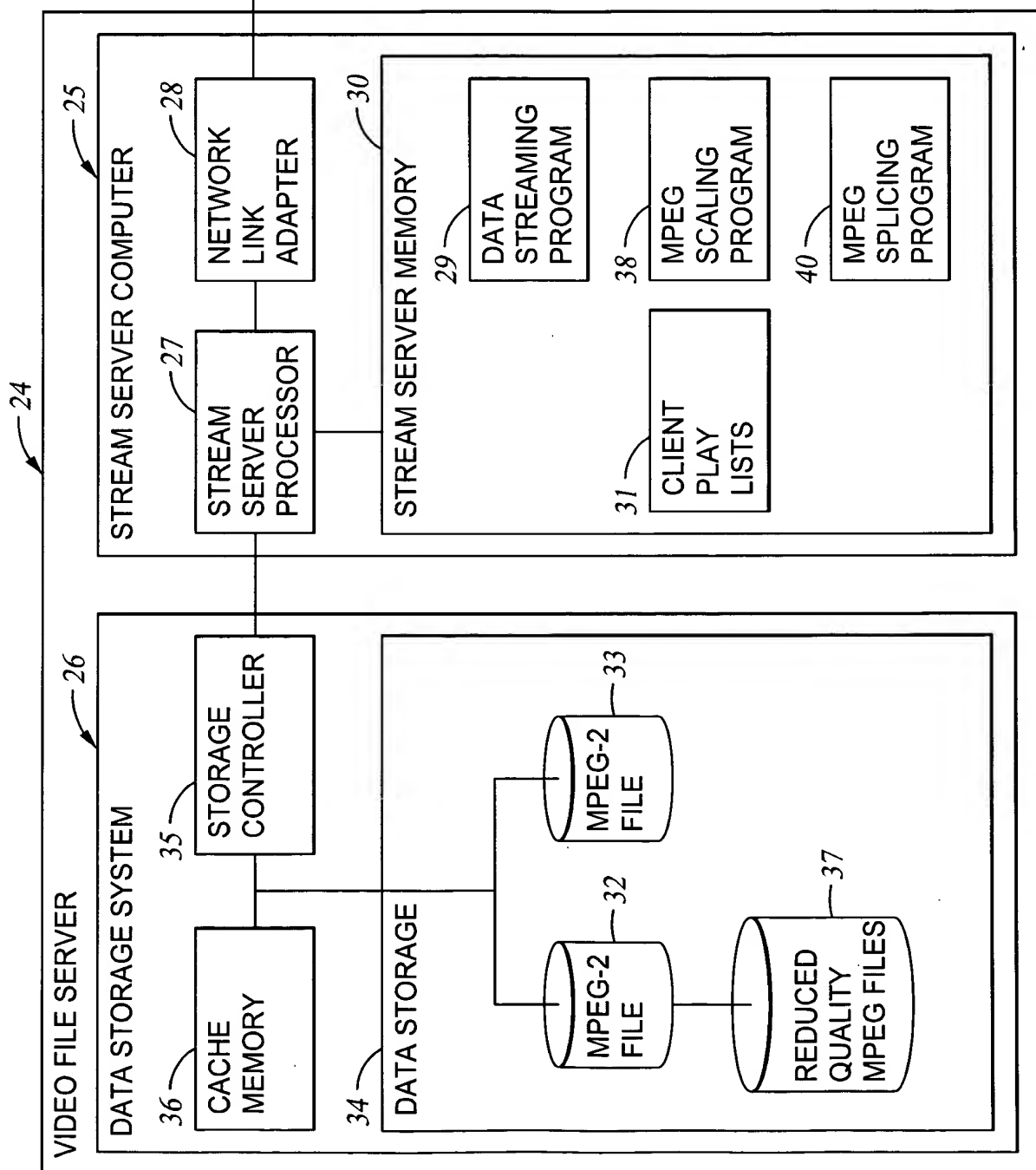
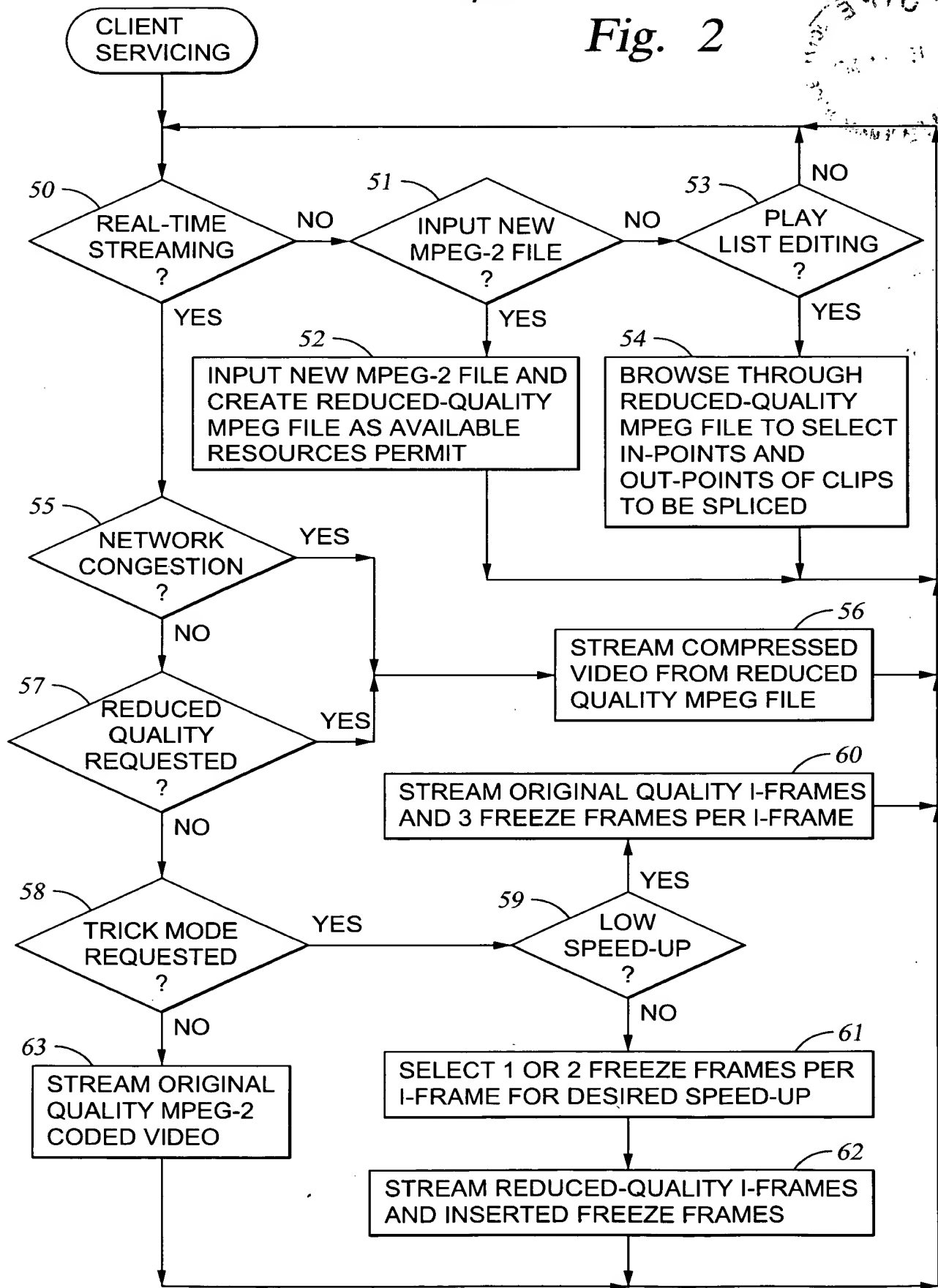


Fig. 2



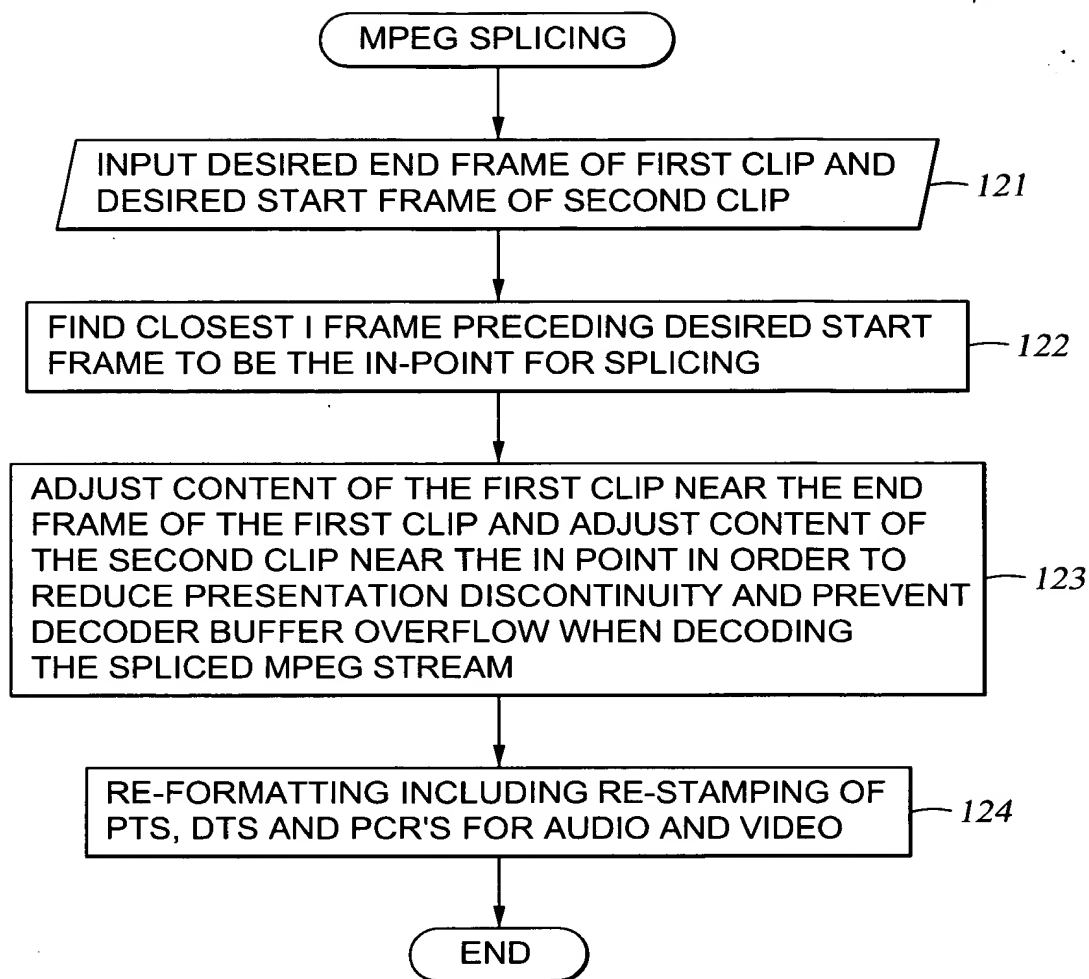


Fig. 3

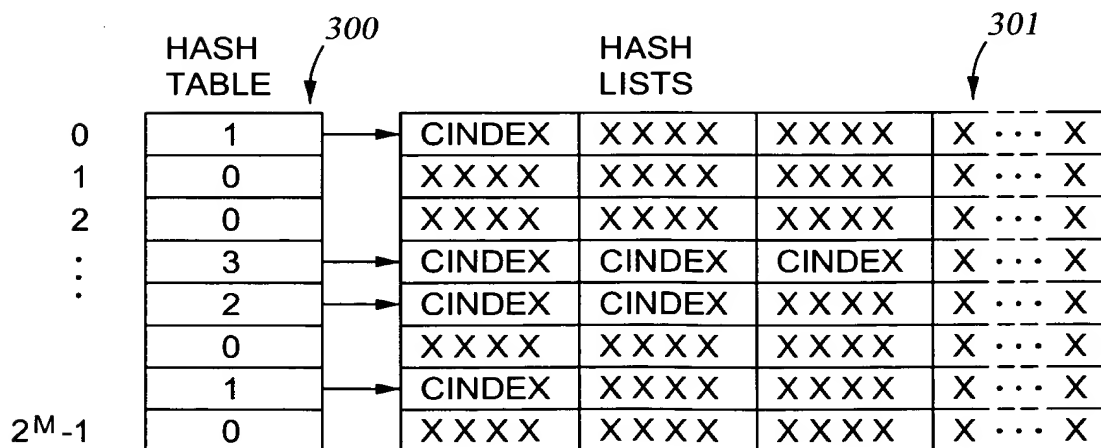
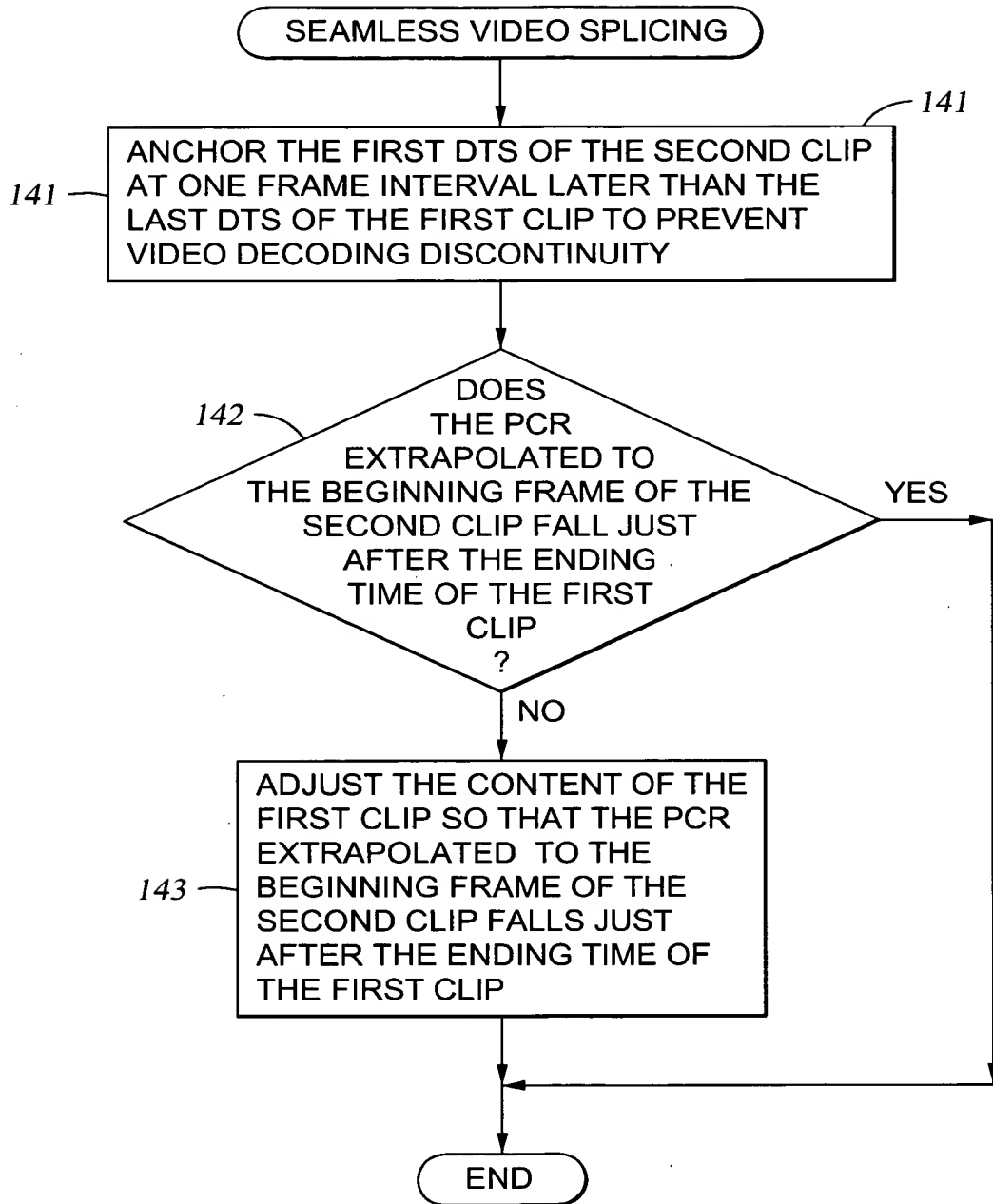


Fig. 18

*Fig. 4*

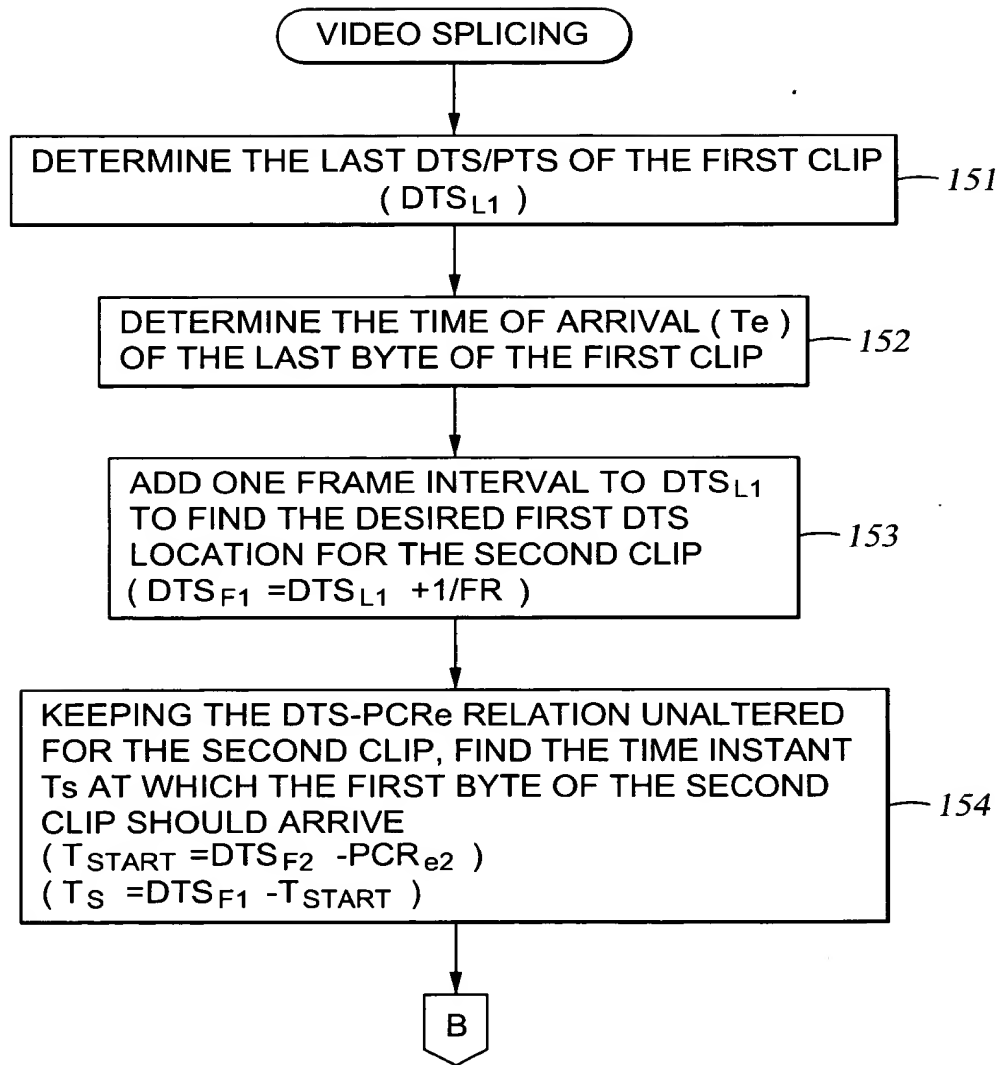
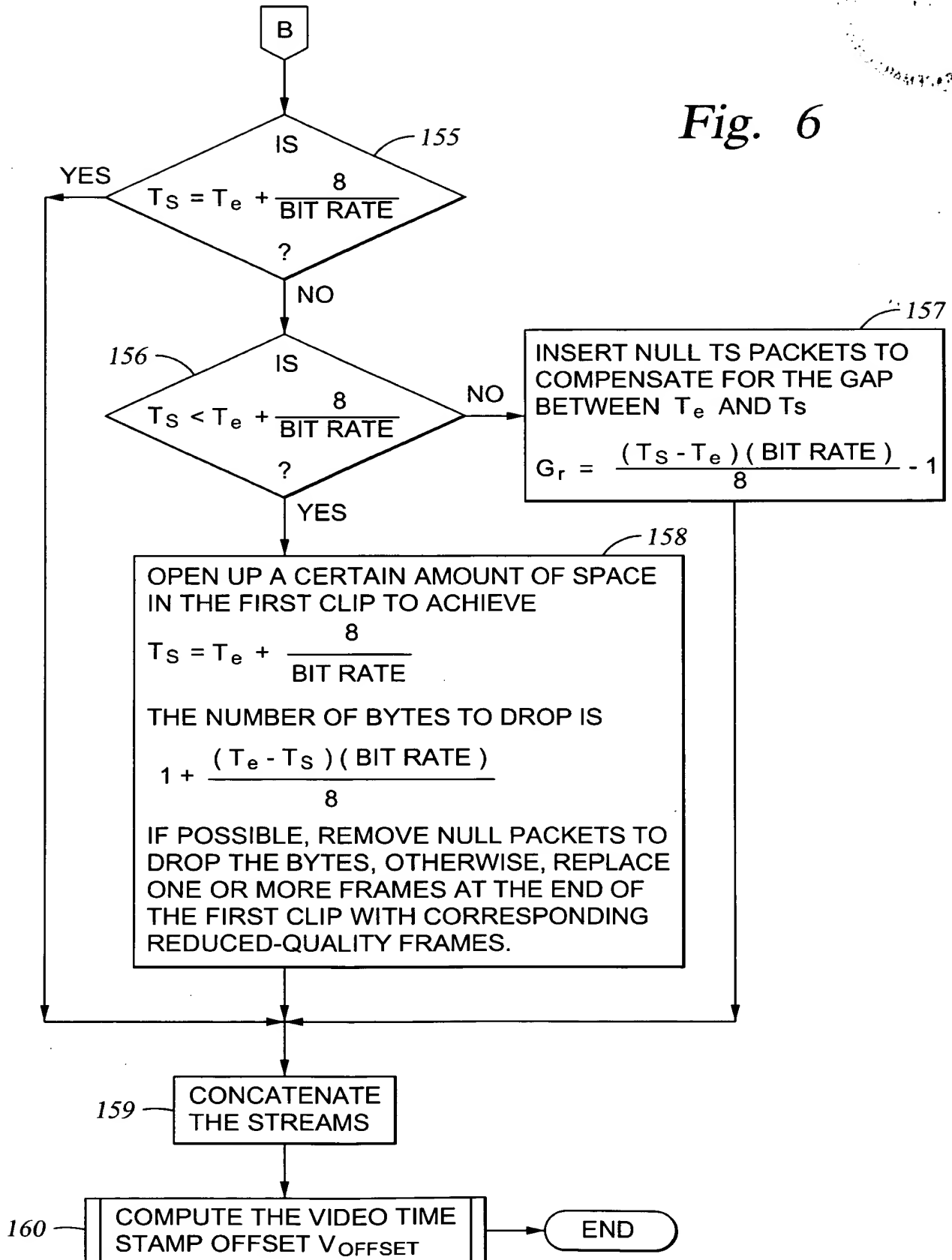
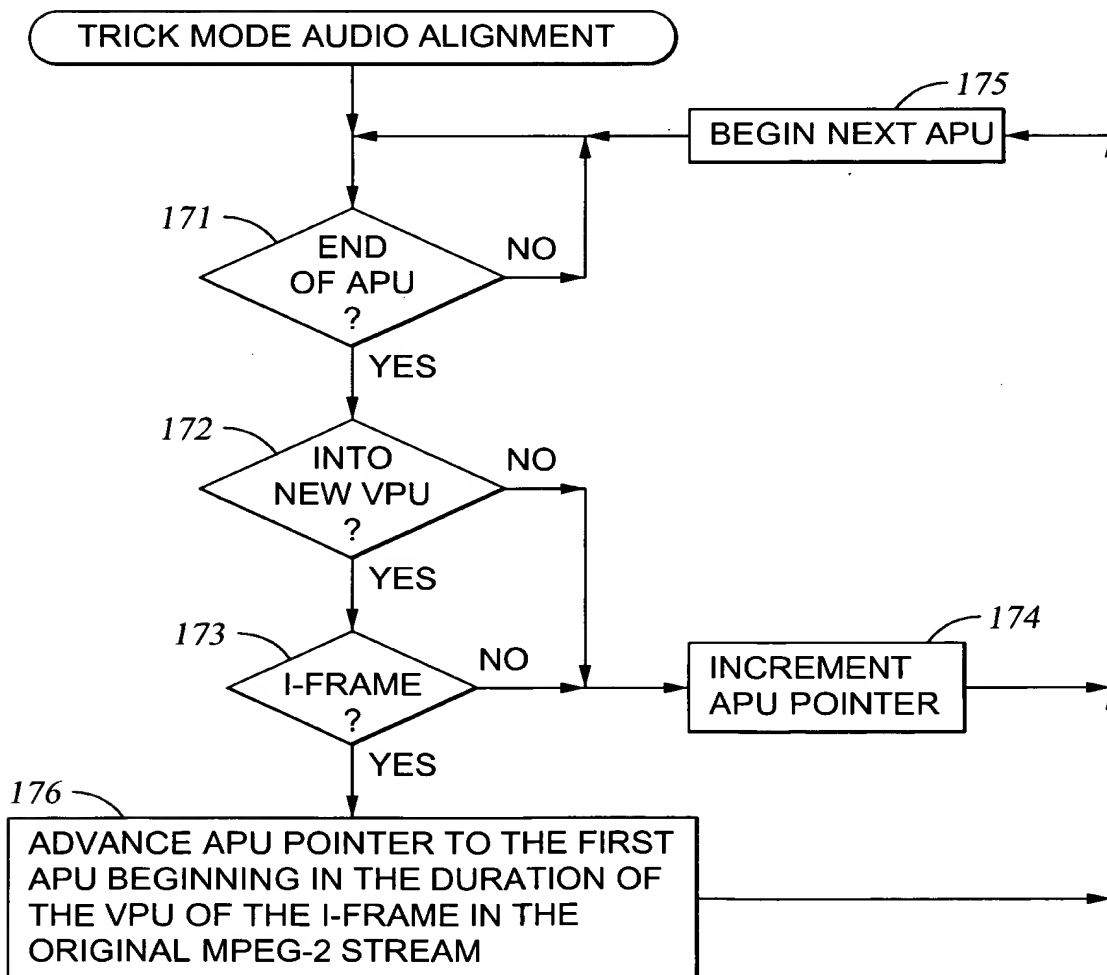
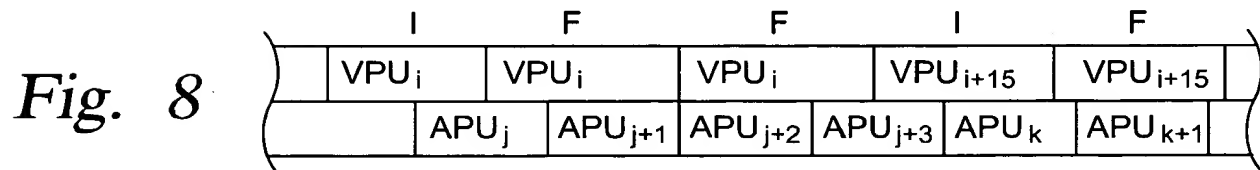
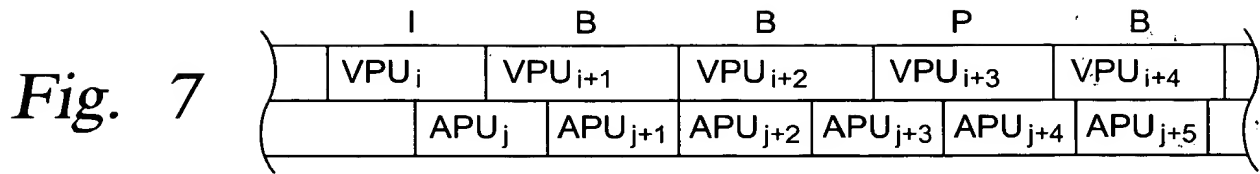
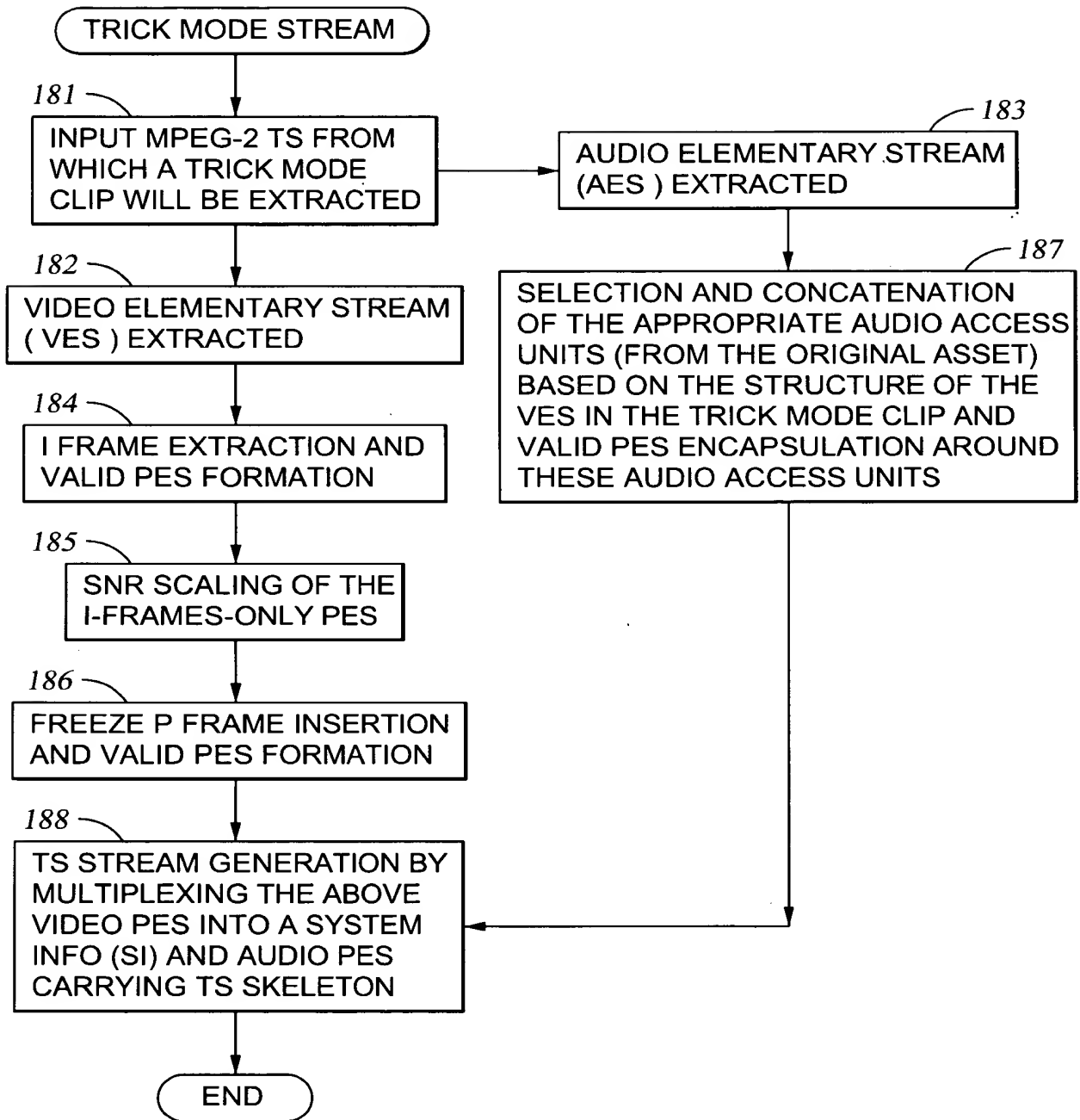
*Fig. 5*

Fig. 6

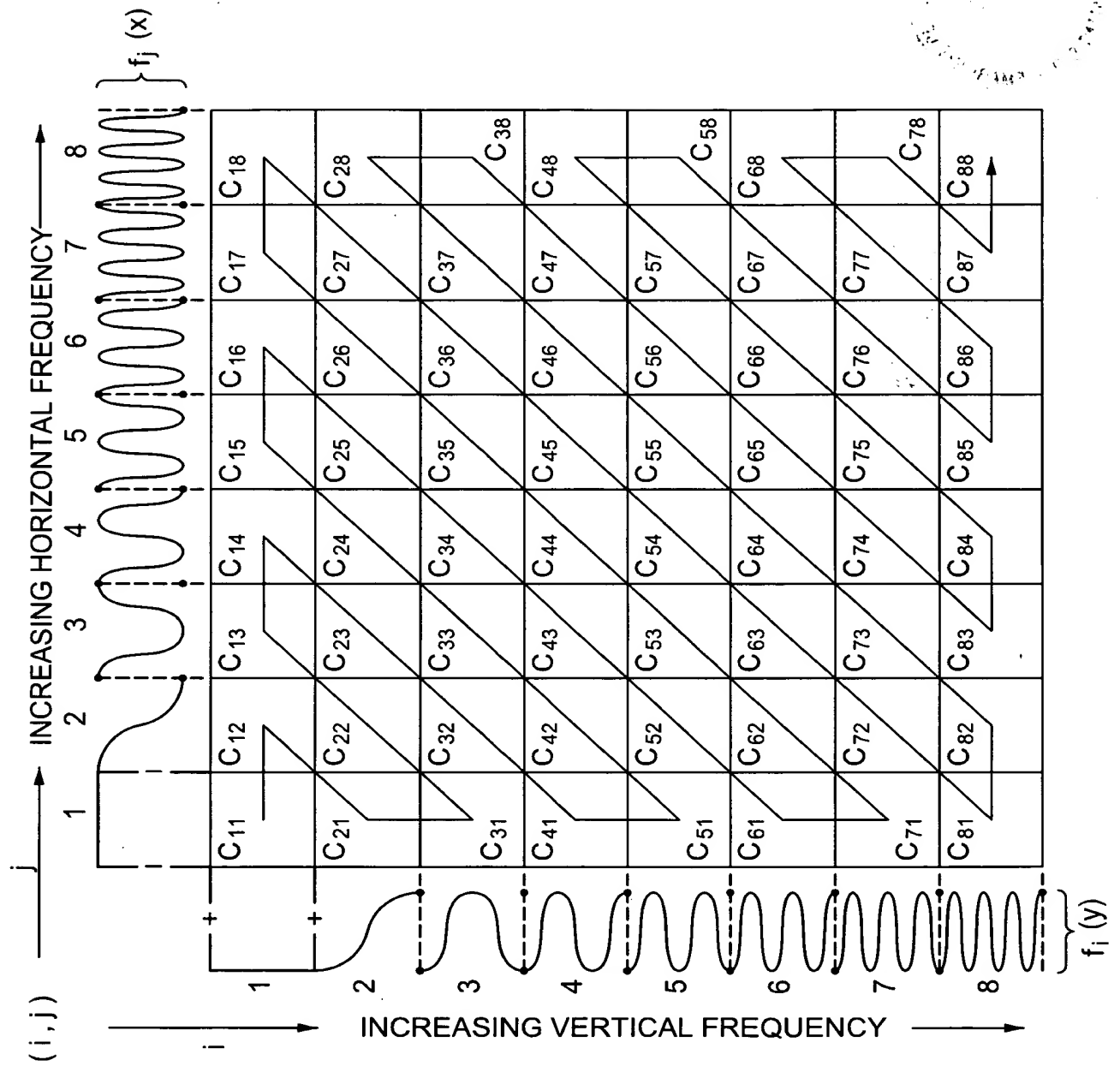




**Fig. 9**

*Fig. 10*





**Fig. 11**  
(PRIOR ART)

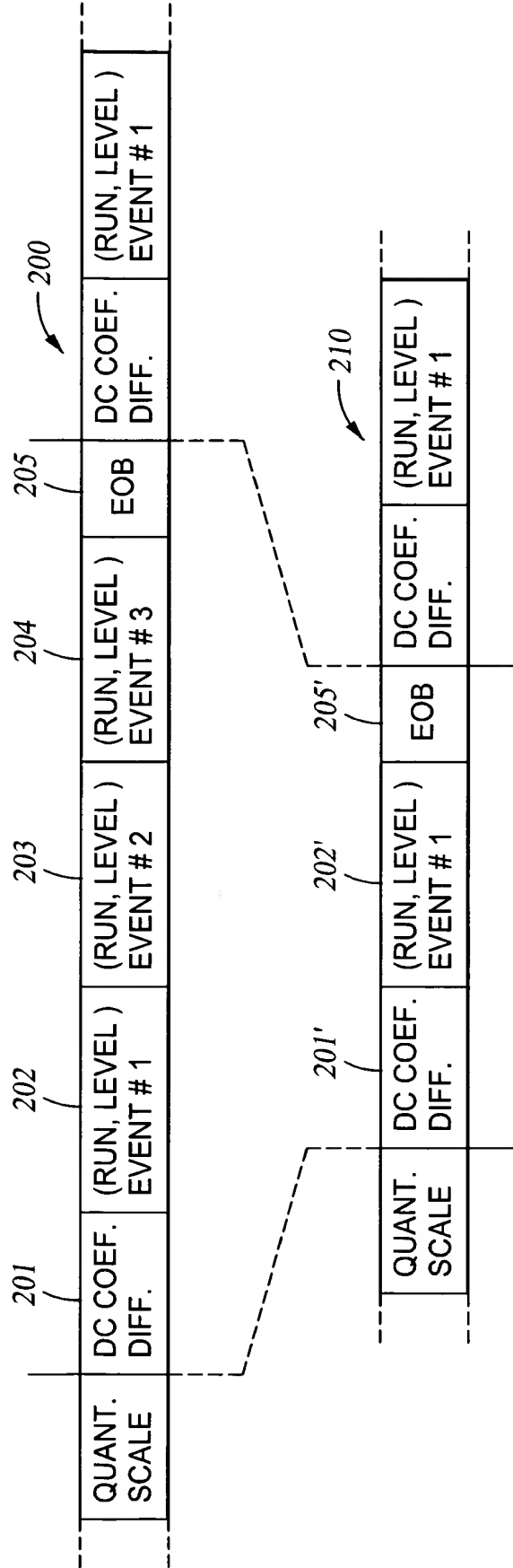


Fig. 12

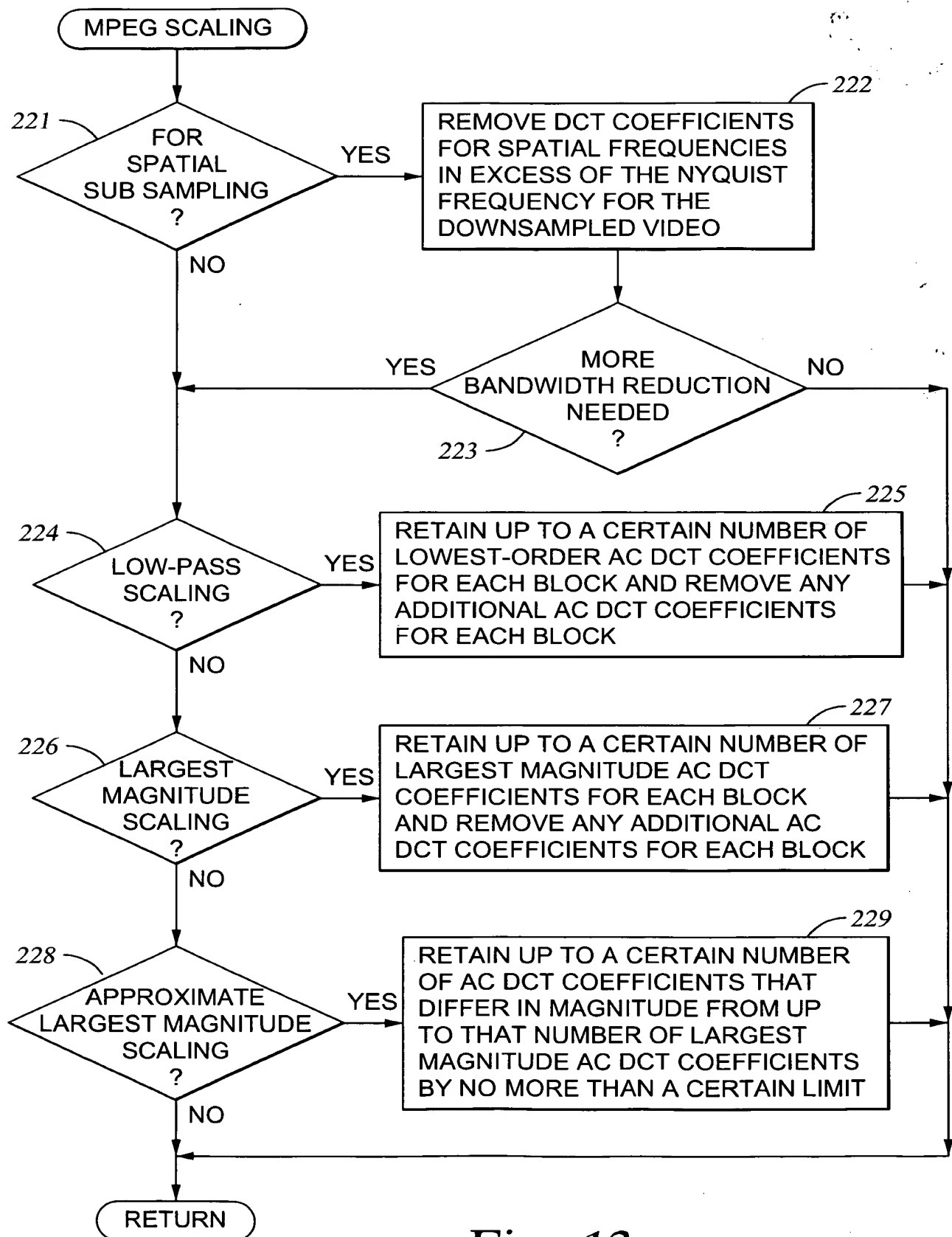


Fig. 13

12/39

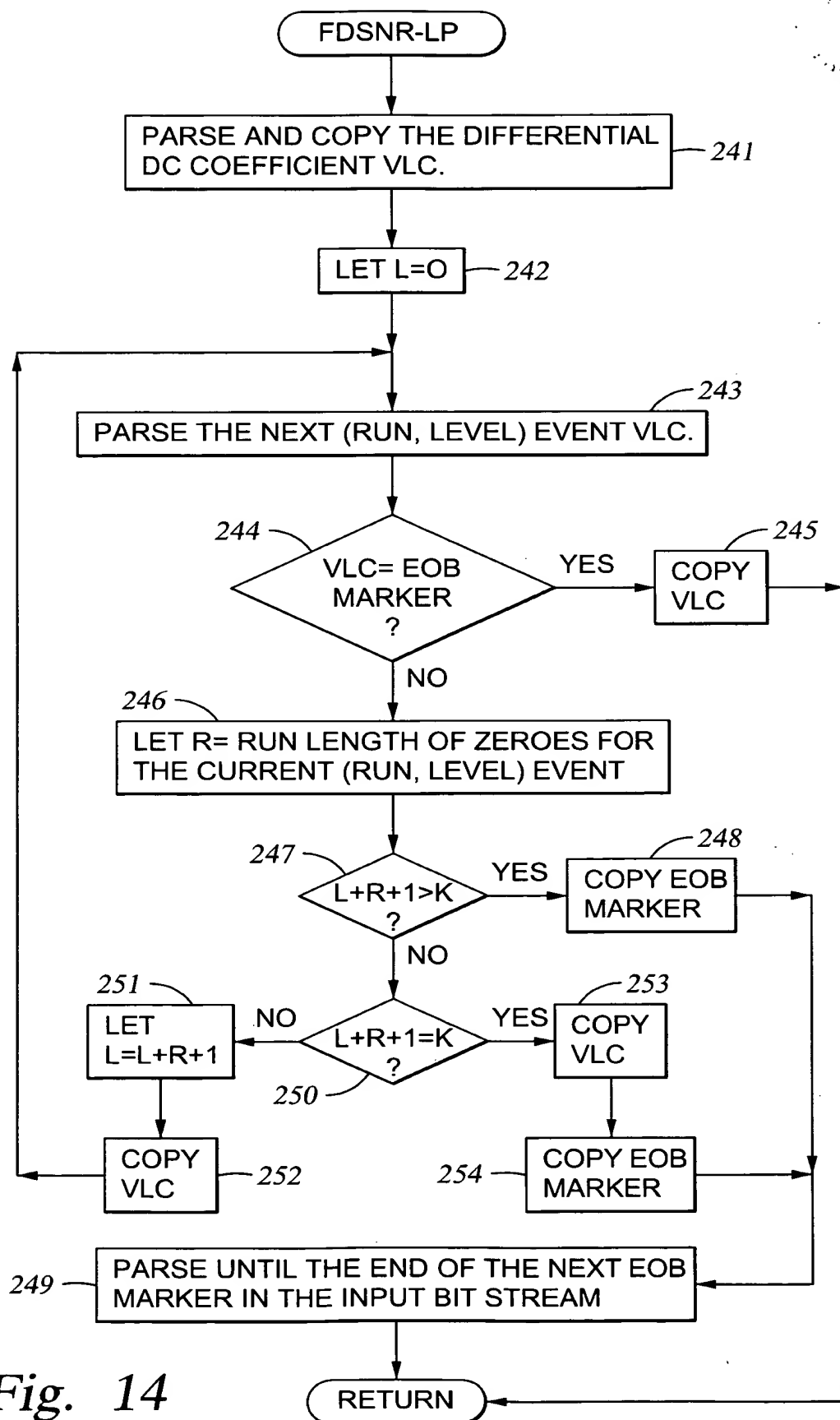
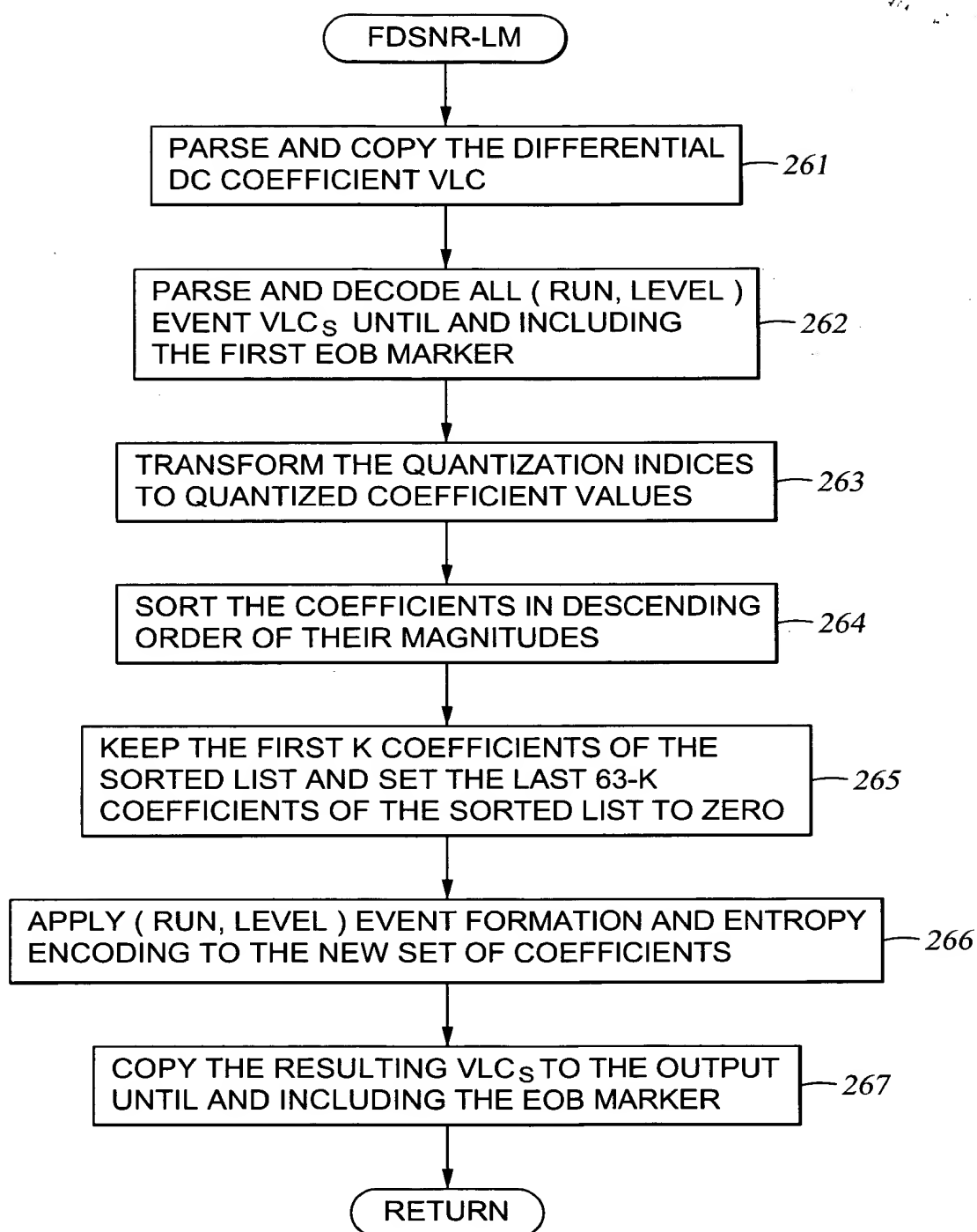


Fig. 14

*Fig. 15*

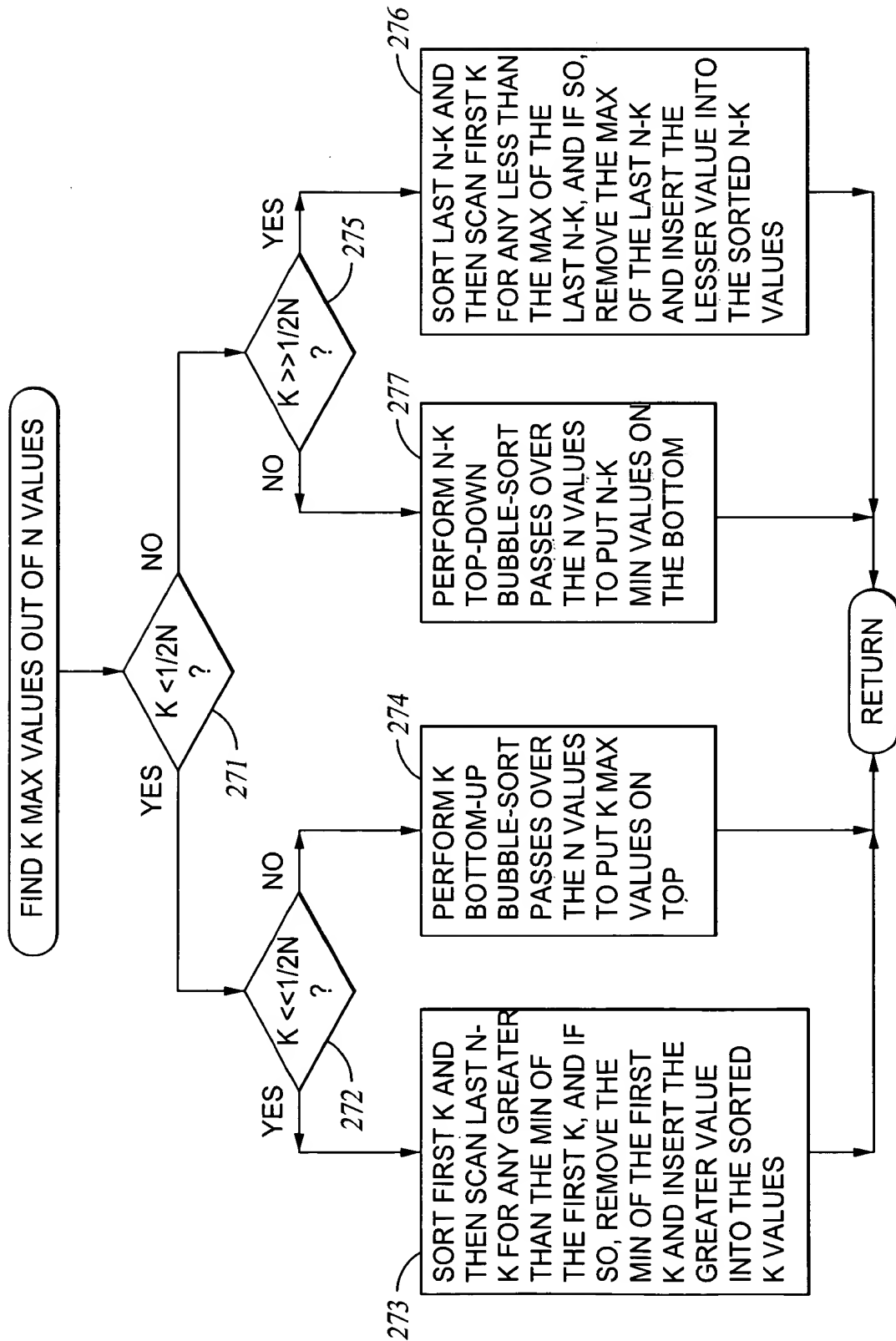


Fig. 16

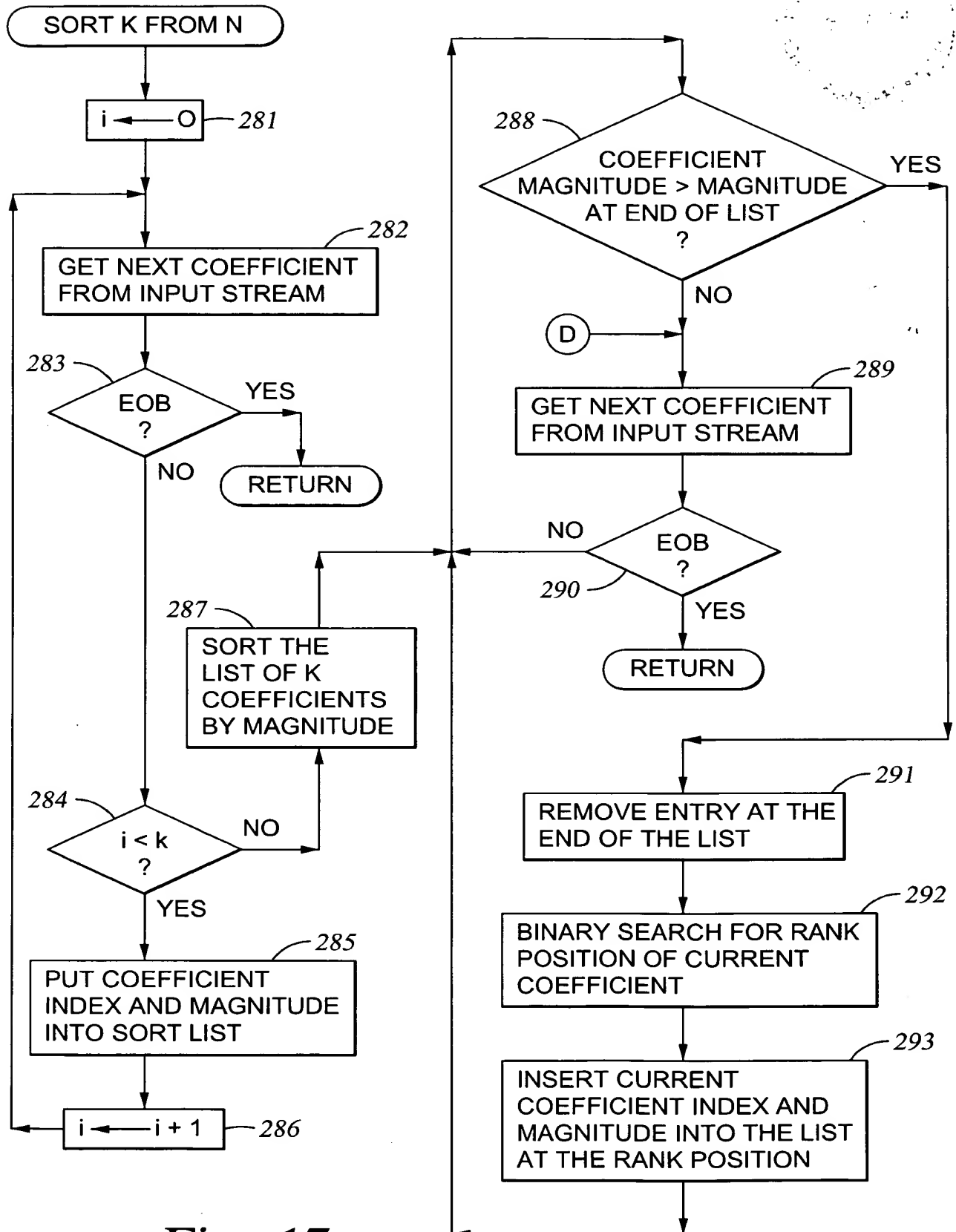


Fig. 17

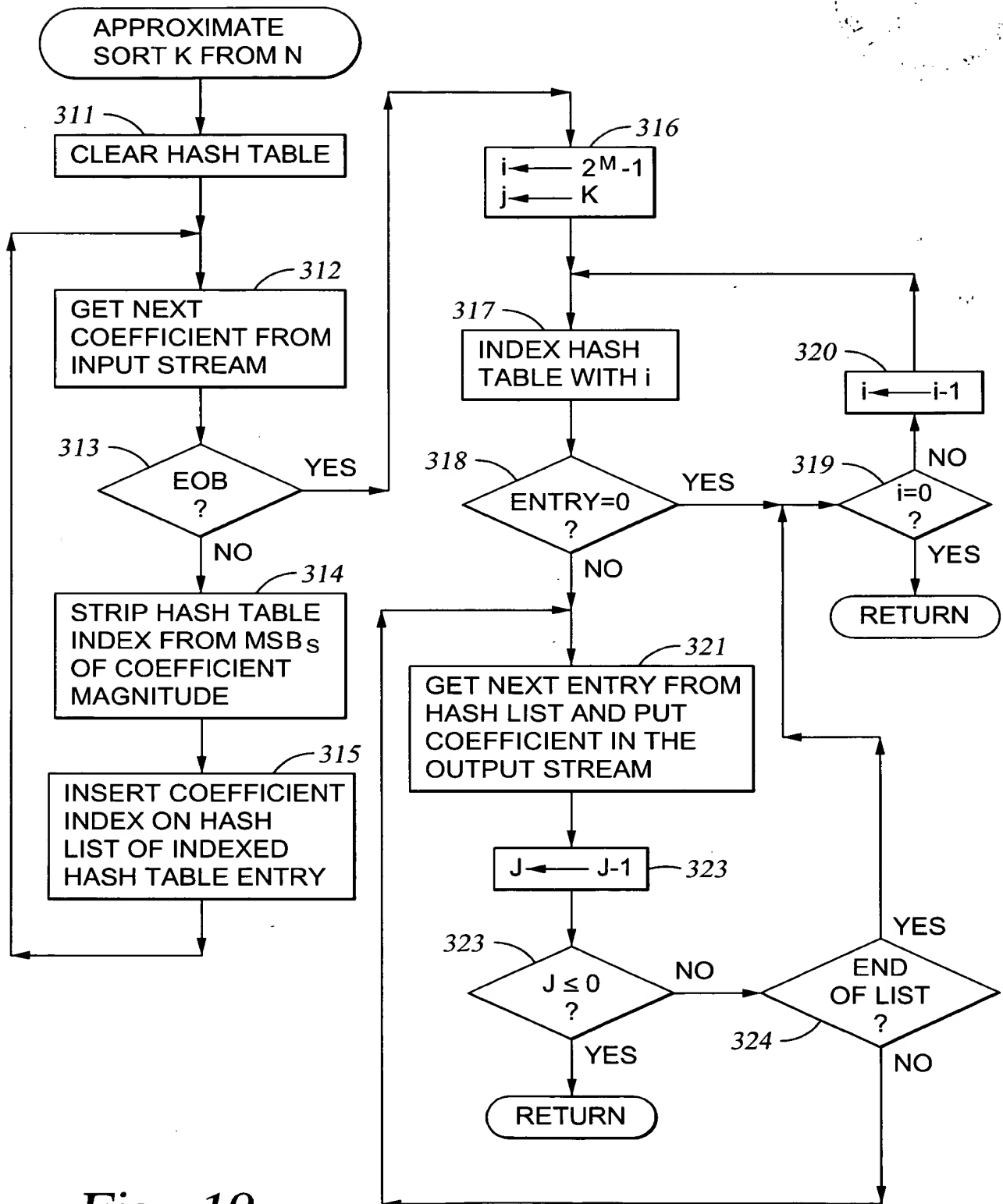


Fig. 19



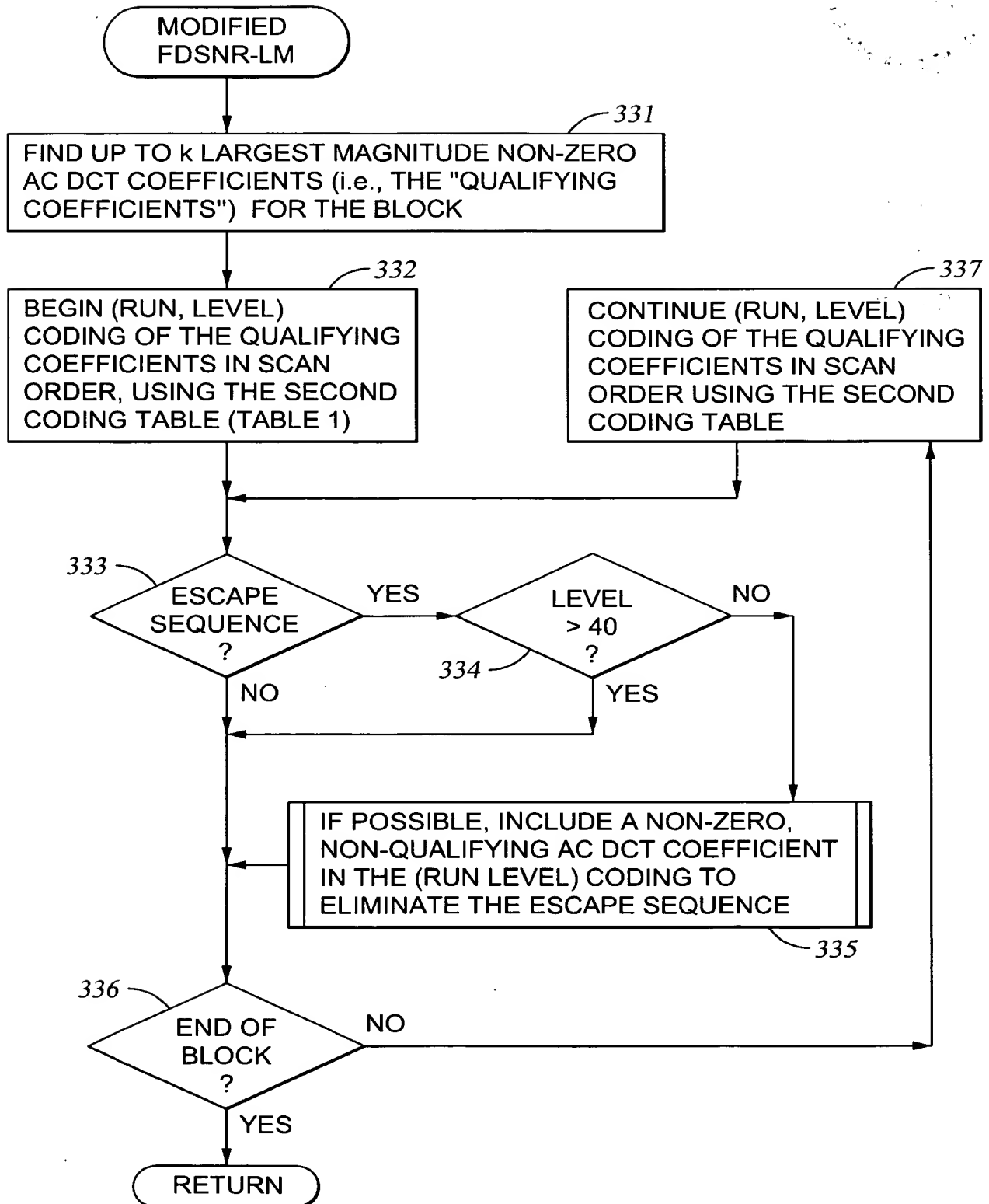


Fig. 20

Fig. 21

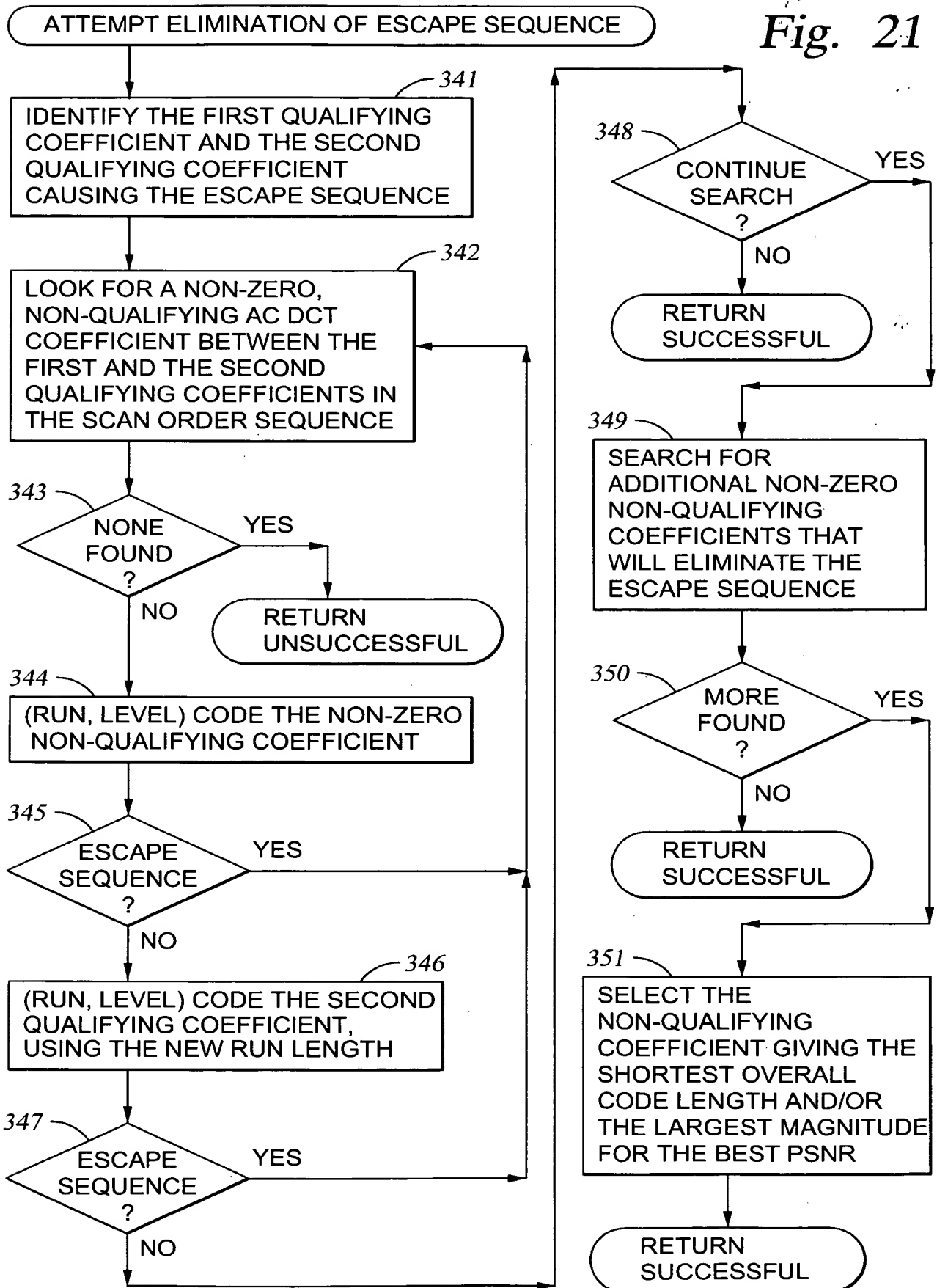


Fig. 22

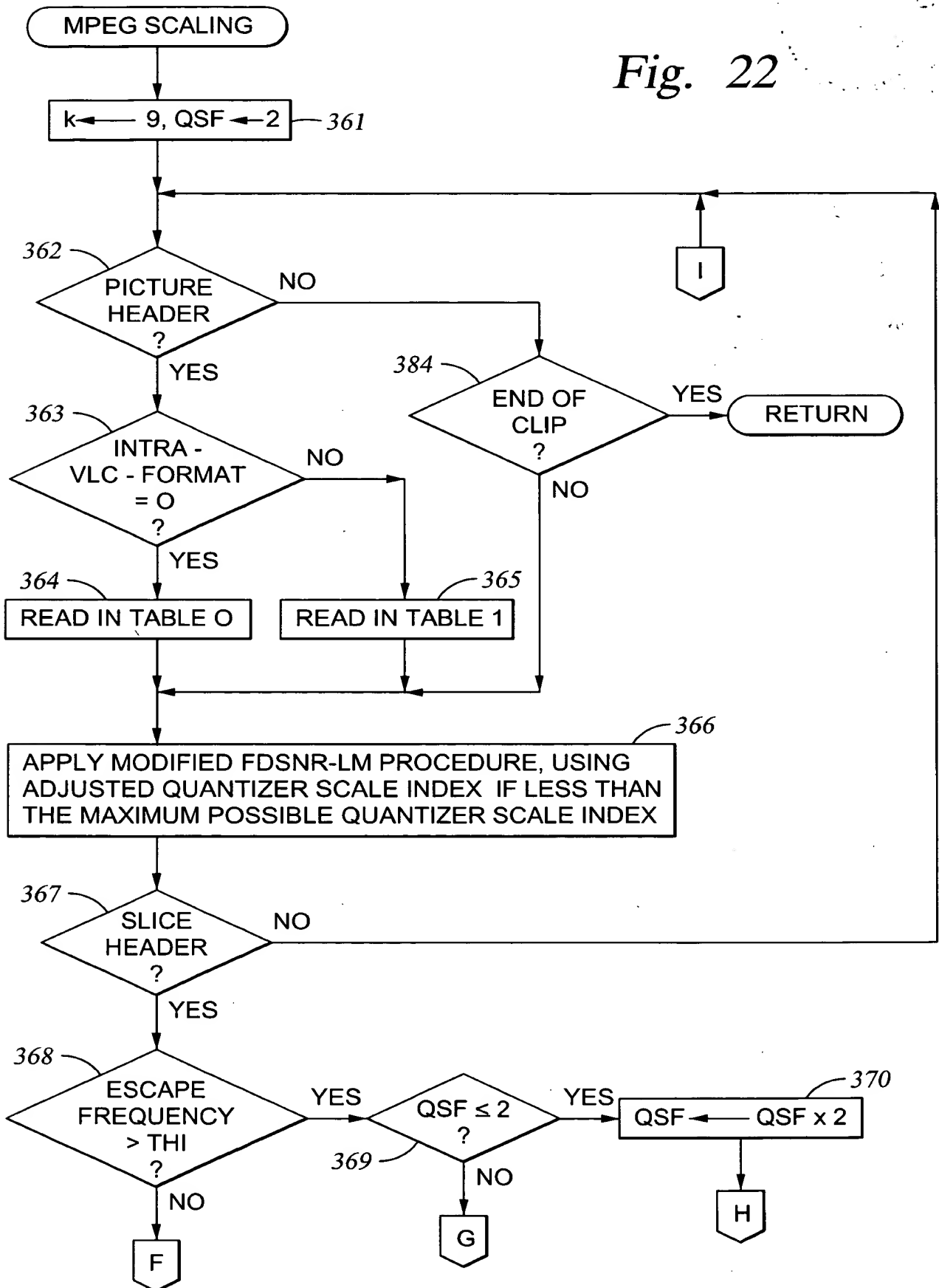
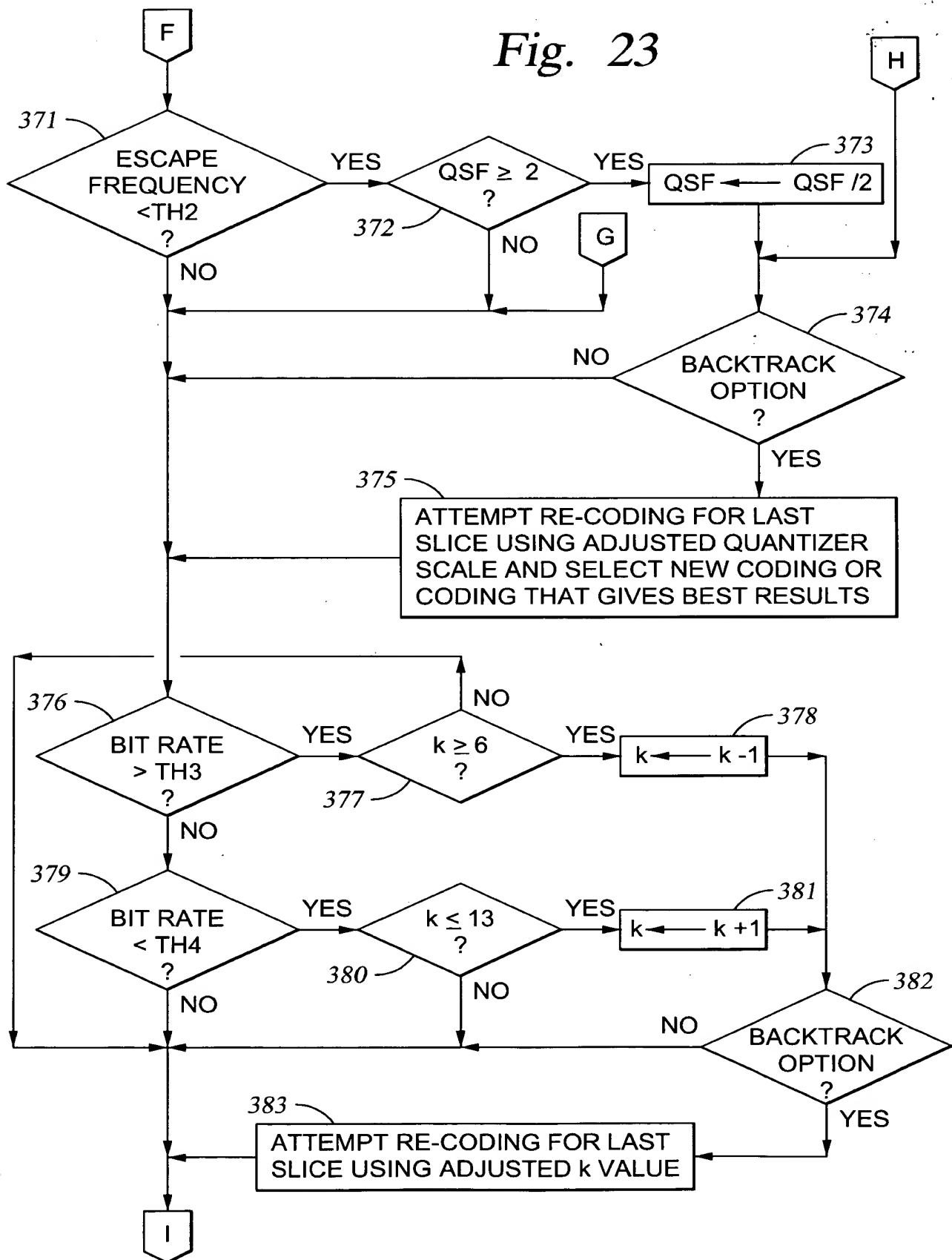


Fig. 23



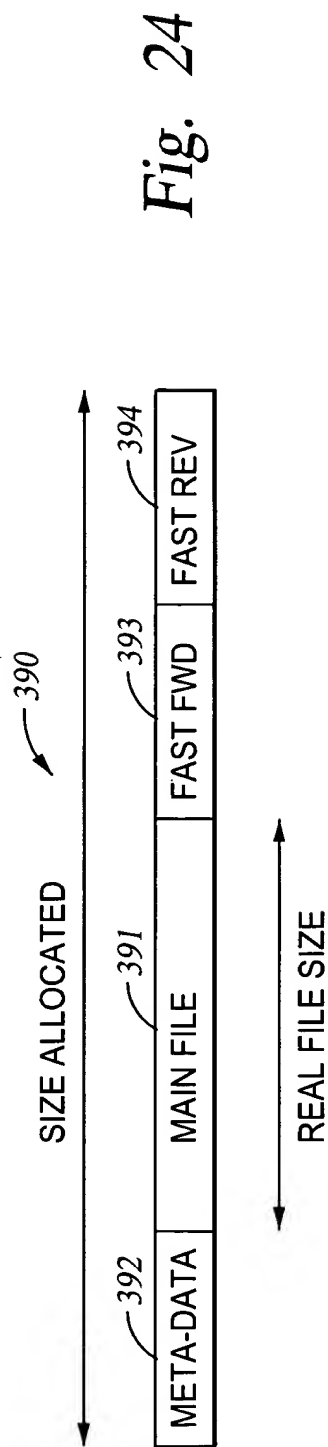


Fig. 24

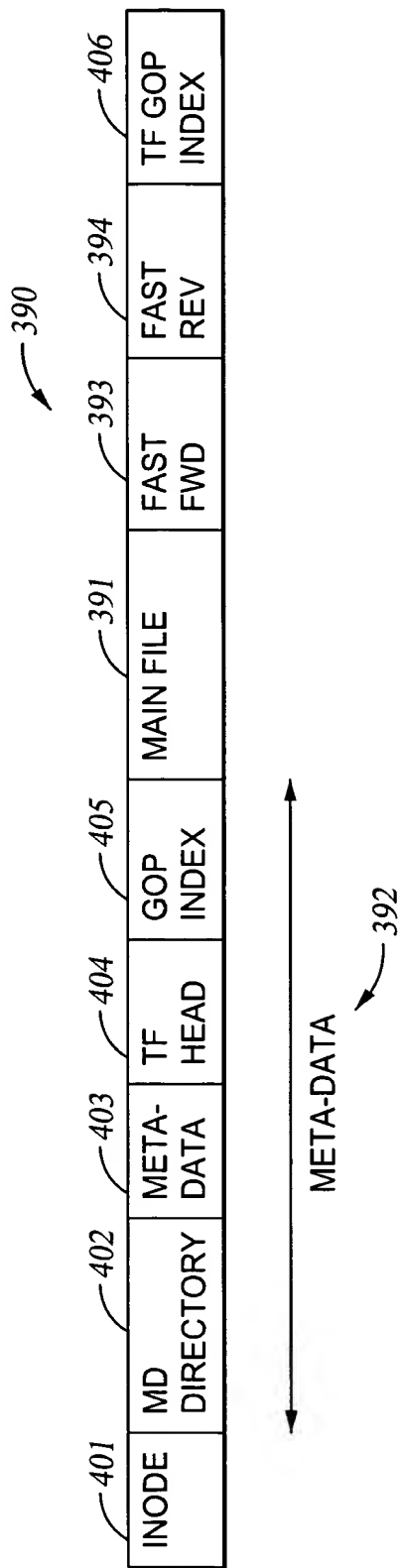


Fig. 25

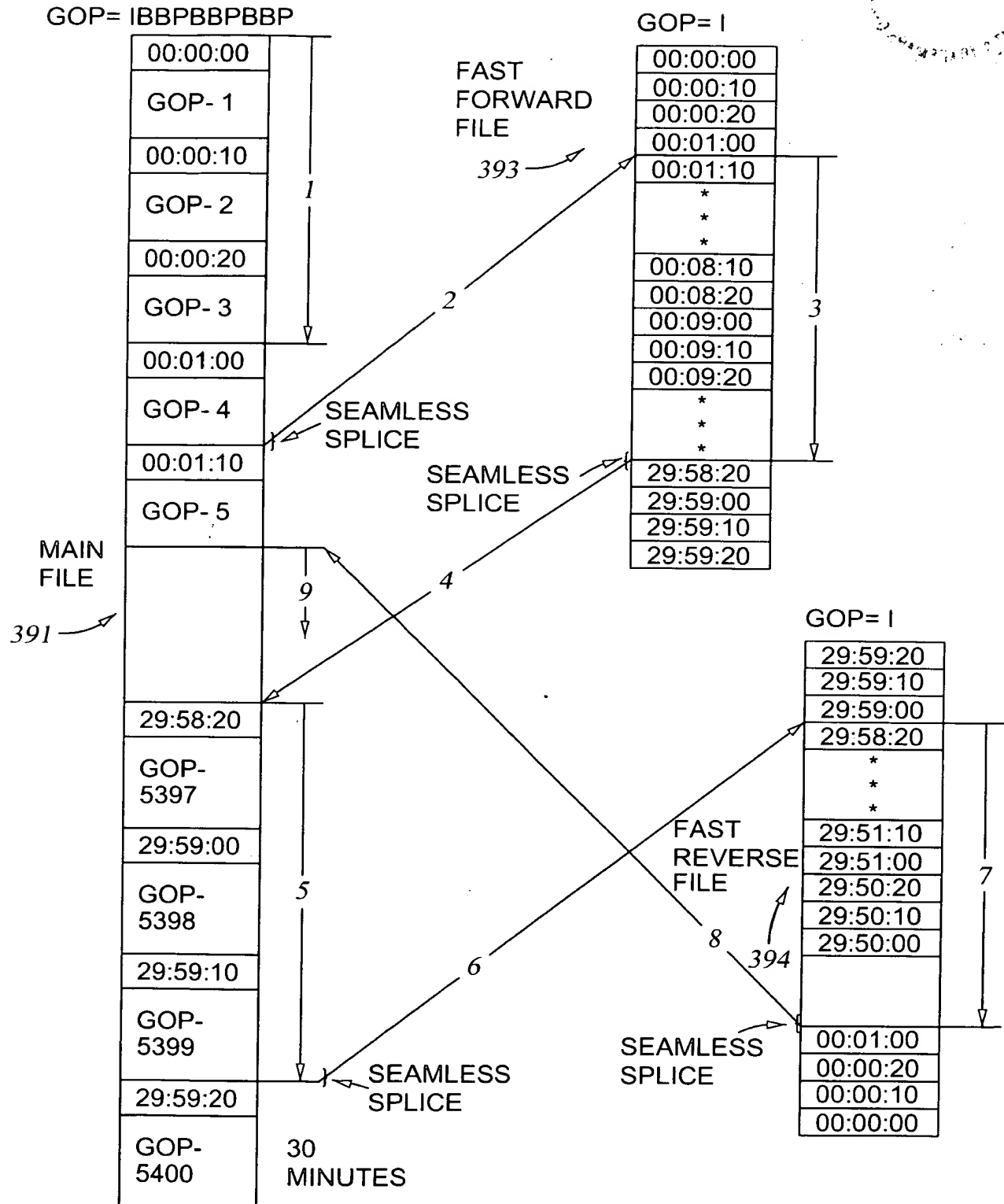
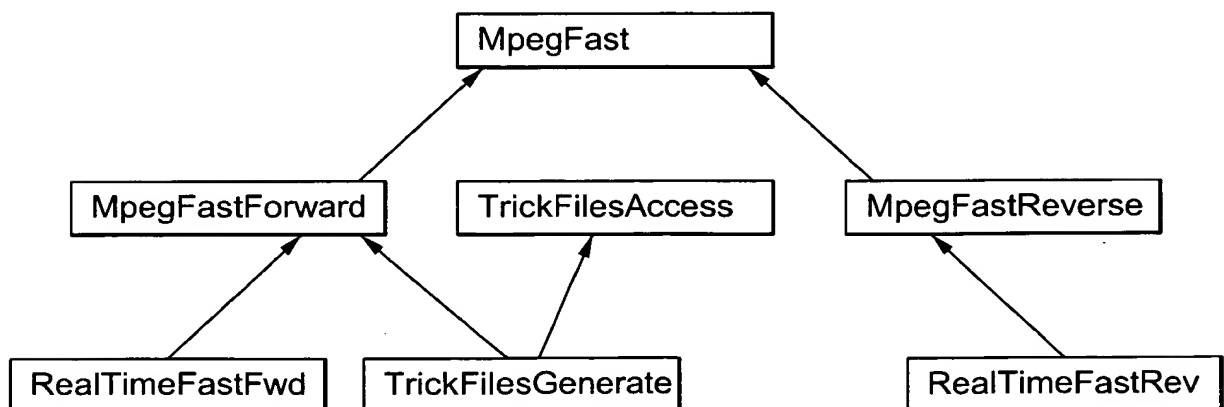


Fig. 26A

*Fig. 26B*

- 1- Play from start 1 sec
- 2- Pause
- 3- Fast Forward to 29 min
- 4- Pause
- 5- Play 1 sec
- 6- Pause
- 7- Fast Reverse to 1 sec
- 8- Pause
- 9- Play Normal

	READ	WRITE
COPY OF THE ASSET WITH ALL THE DATA	EMPEG2	EMPEG2
COPY ONLY THE MAIN ASSET	RAW	MPEG2
ARCHIVE	EMPEG2	EMPEG2
PLAY	MPEG2	
RECORD		MPEG2

*Fig. 27**Fig. 28*

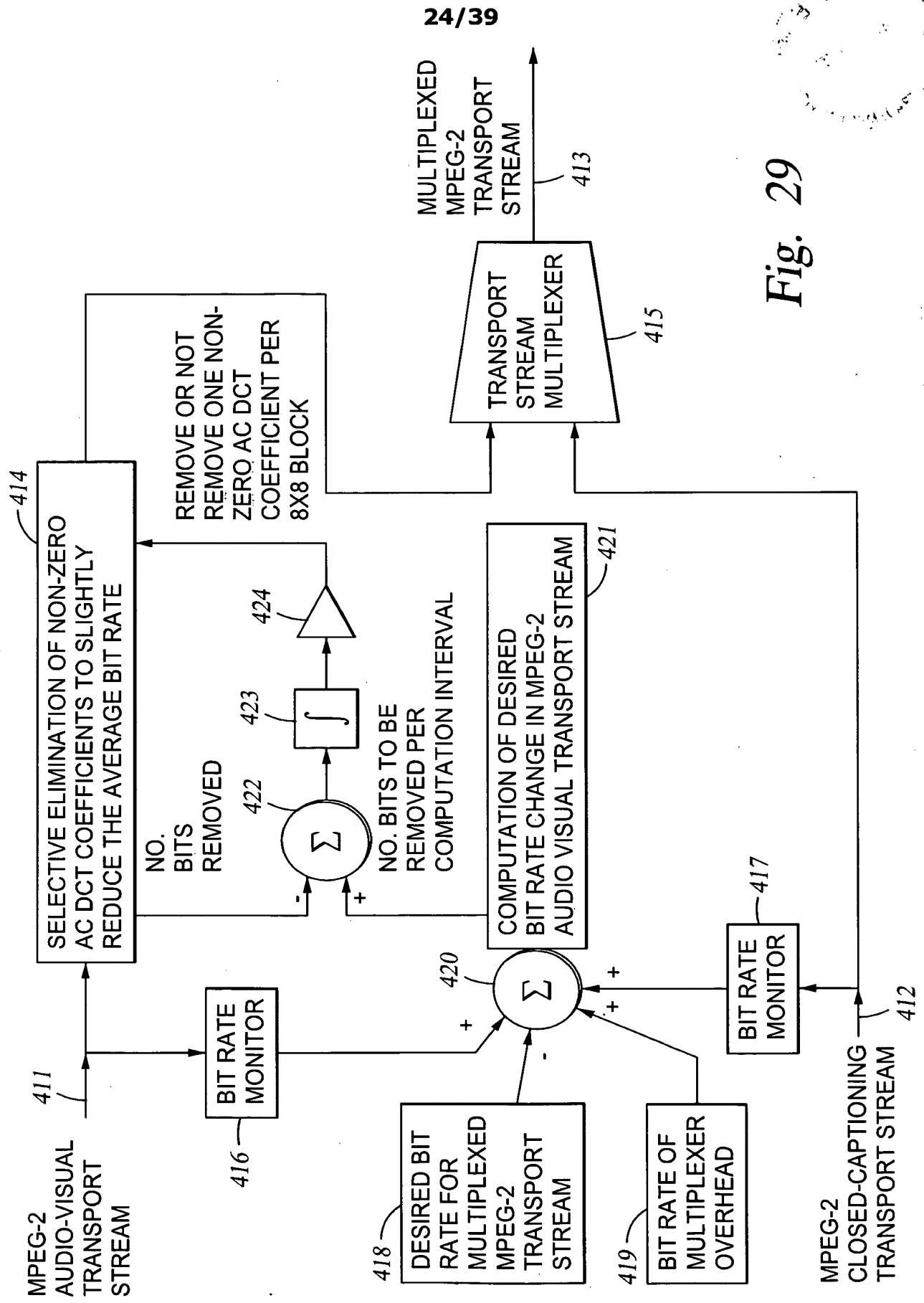
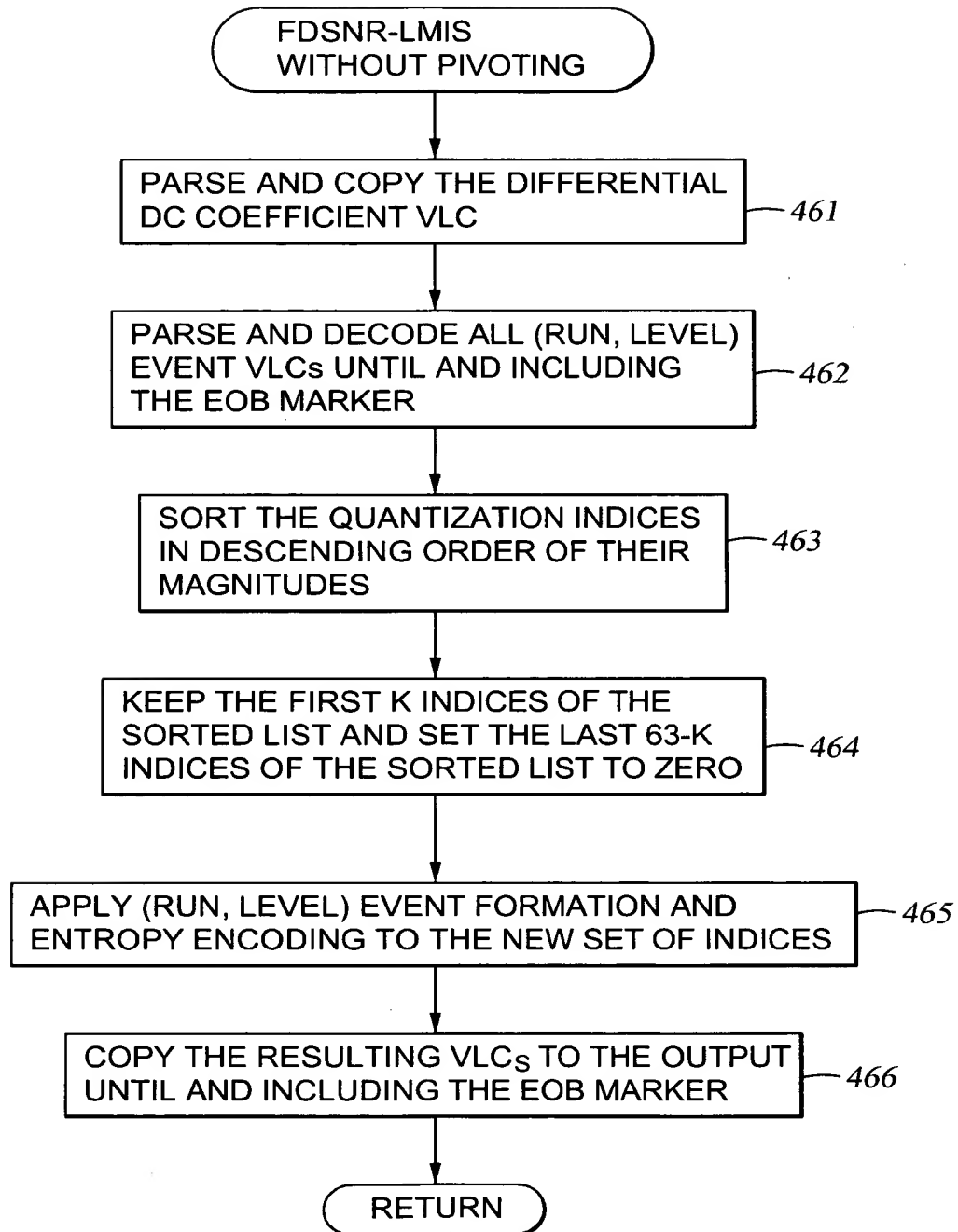
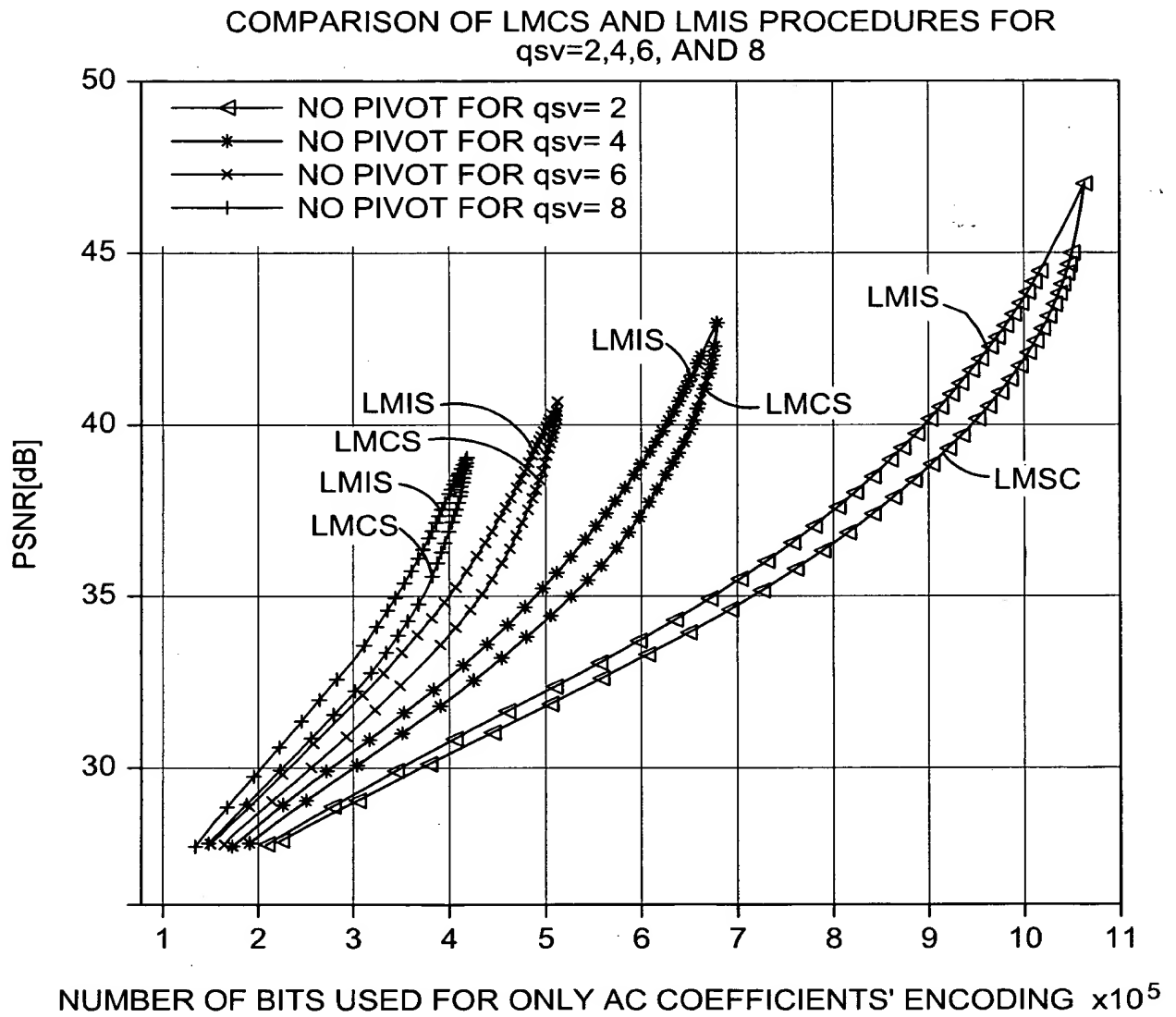
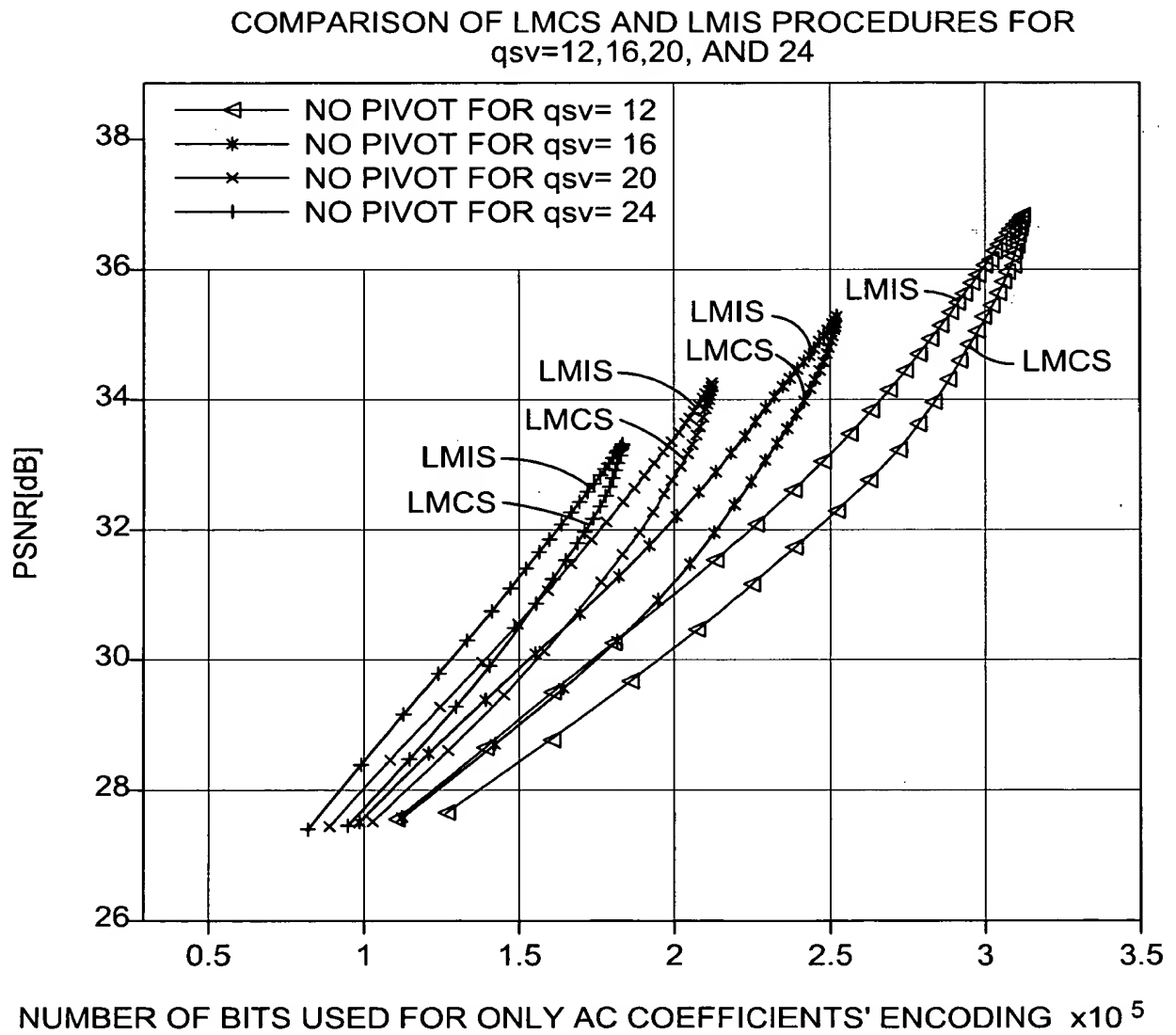
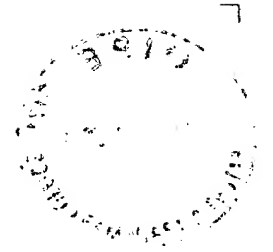


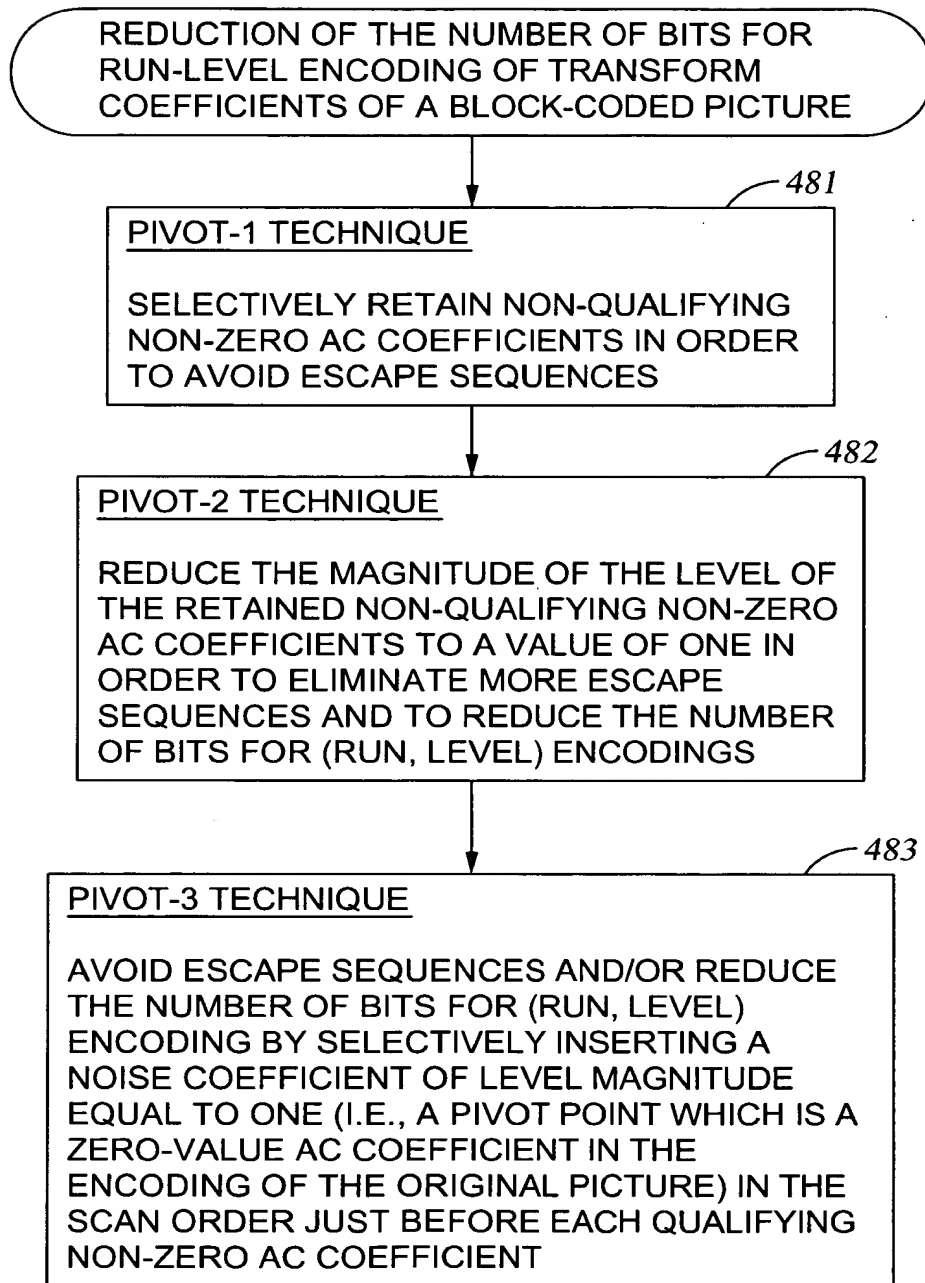
Fig. 29



*Fig. 30*

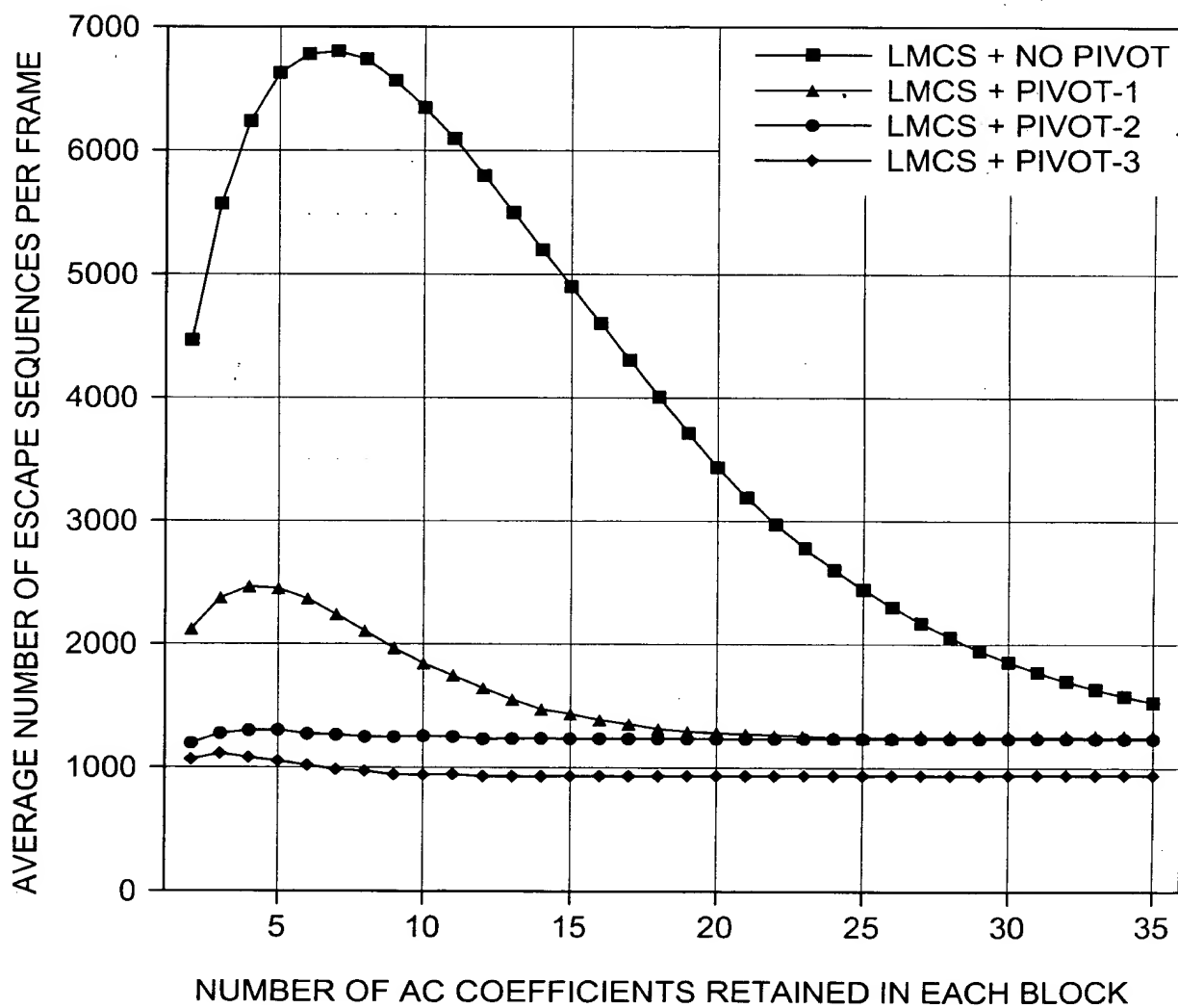
*Fig. 31*

*Fig. 32*

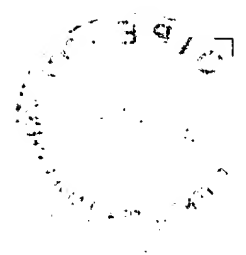
*Fig. 33*



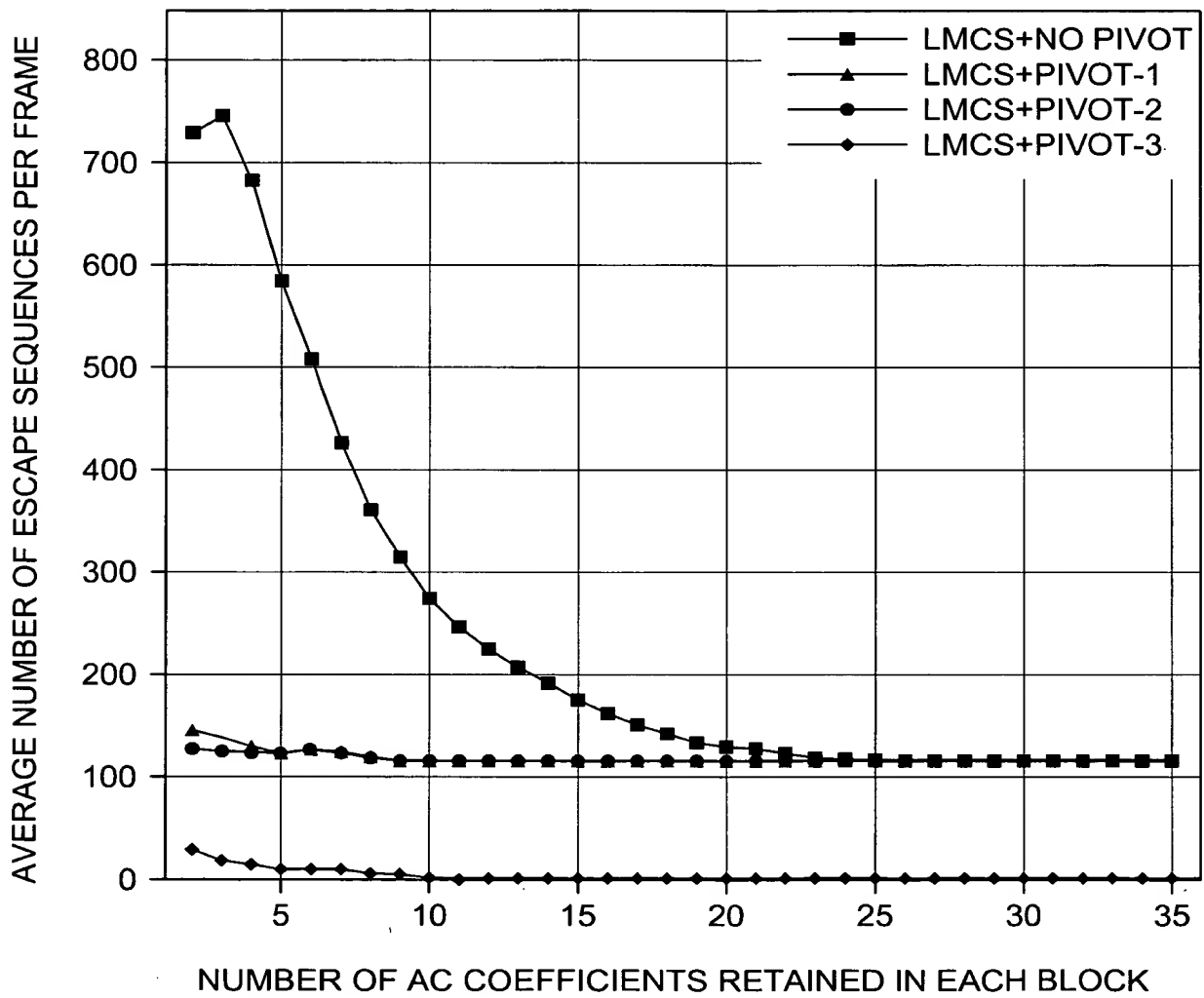
THE EFFECT OF PIVOT TECHNIQUES ON THE ESCAPE  
SEQUENCE COUNT GENERATED BY LMCS FOR  $qsv=4$



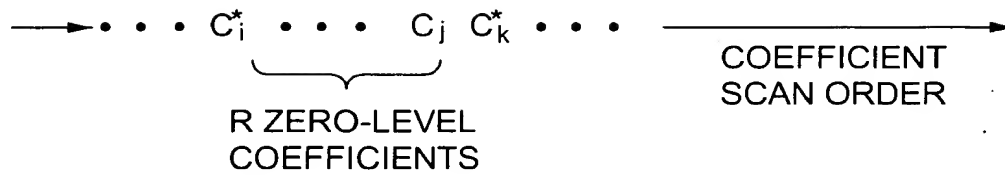
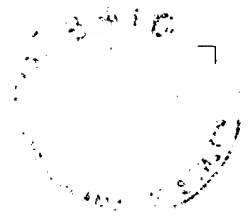
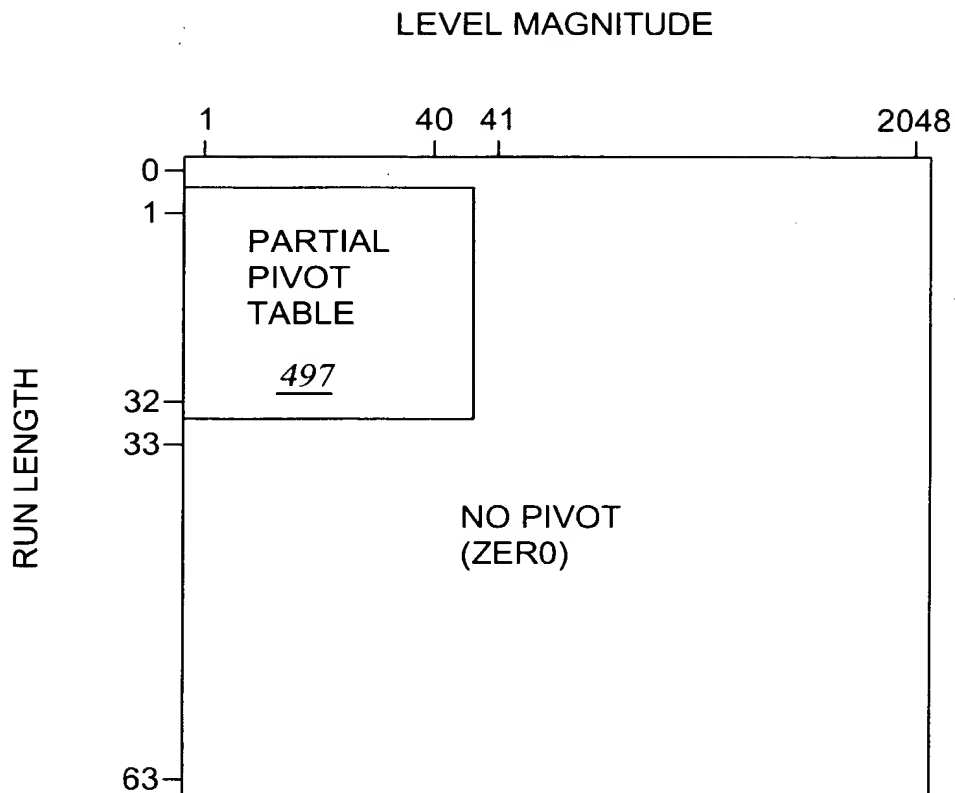
*Fig. 34*

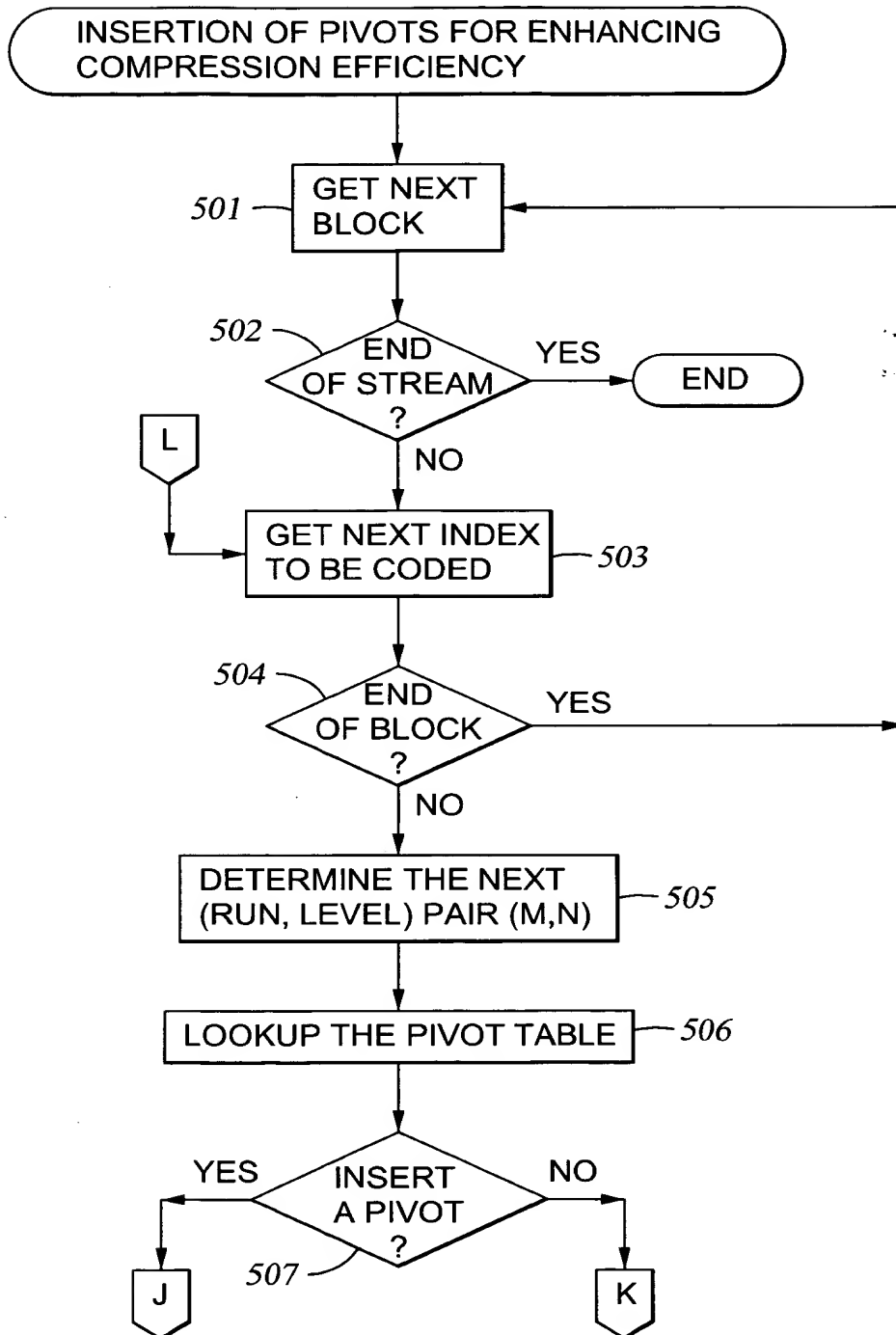


THE EFFECT OF PIVOT TECHNIQUES ON THE ESCAPE  
SEQUENCE COUNT GENERATED BY LMCS  
FOR  $qsv=24$

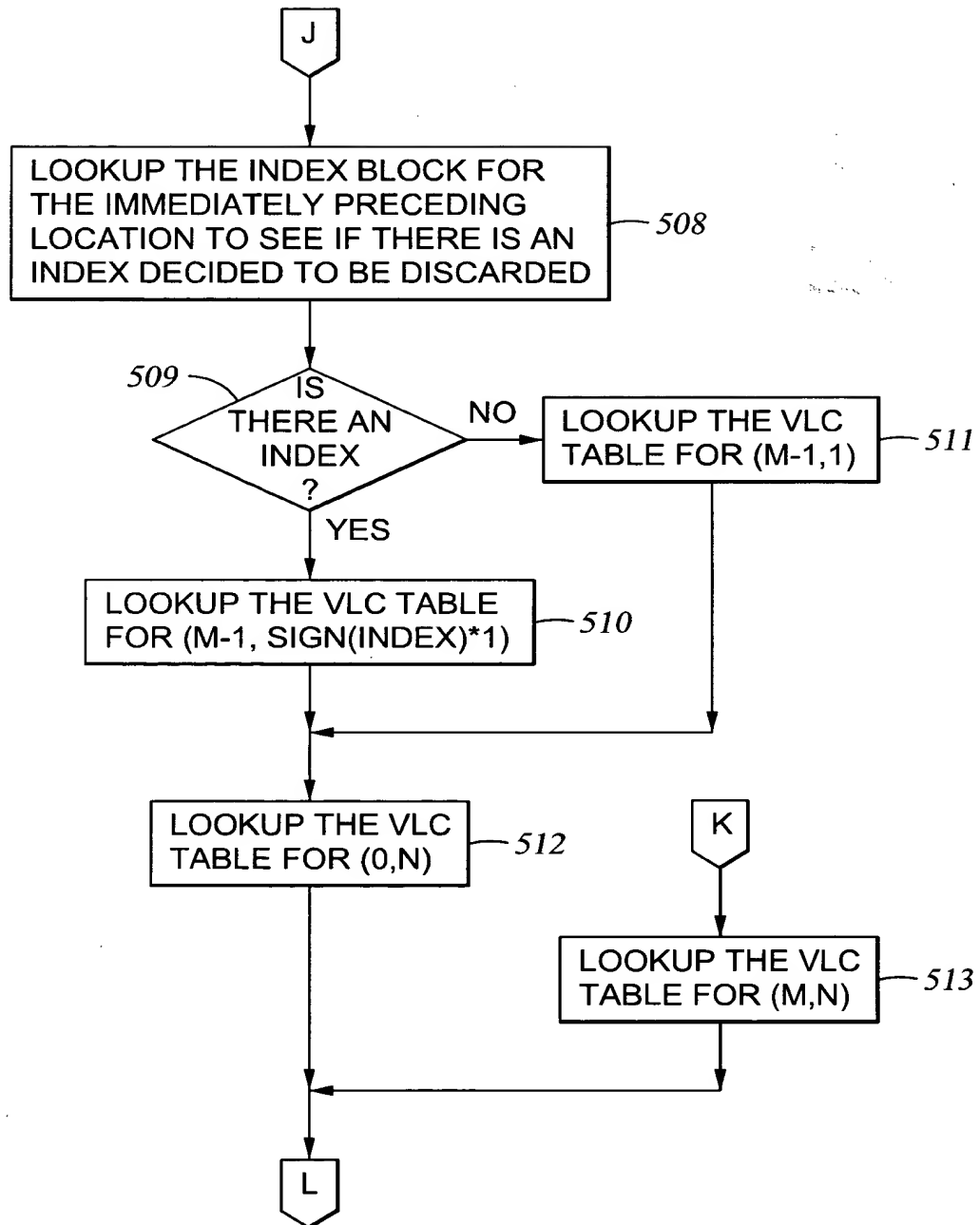


*Fig. 35*

*Fig. 36**Fig. 37*

*Fig. 38*



*Fig. 39*

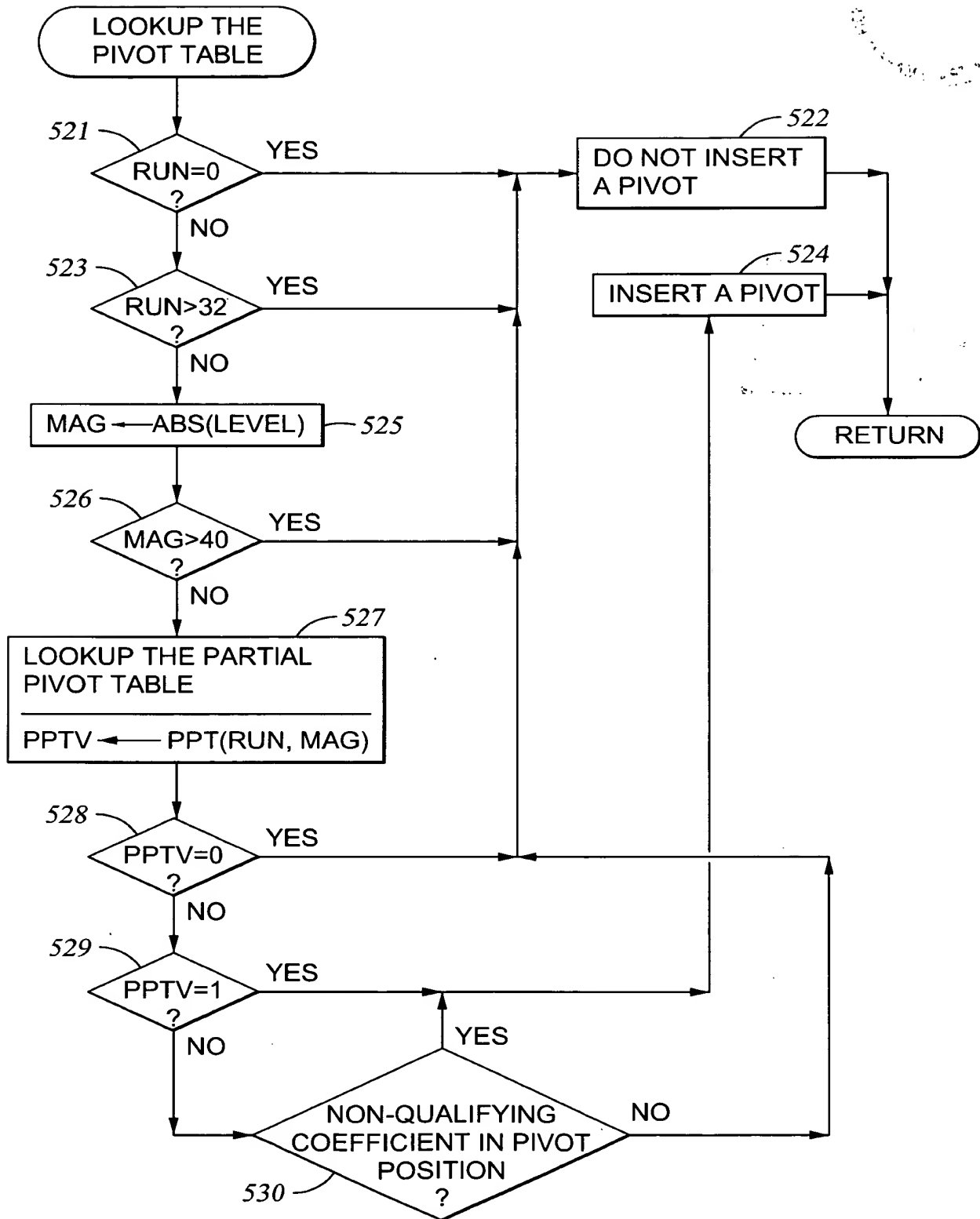
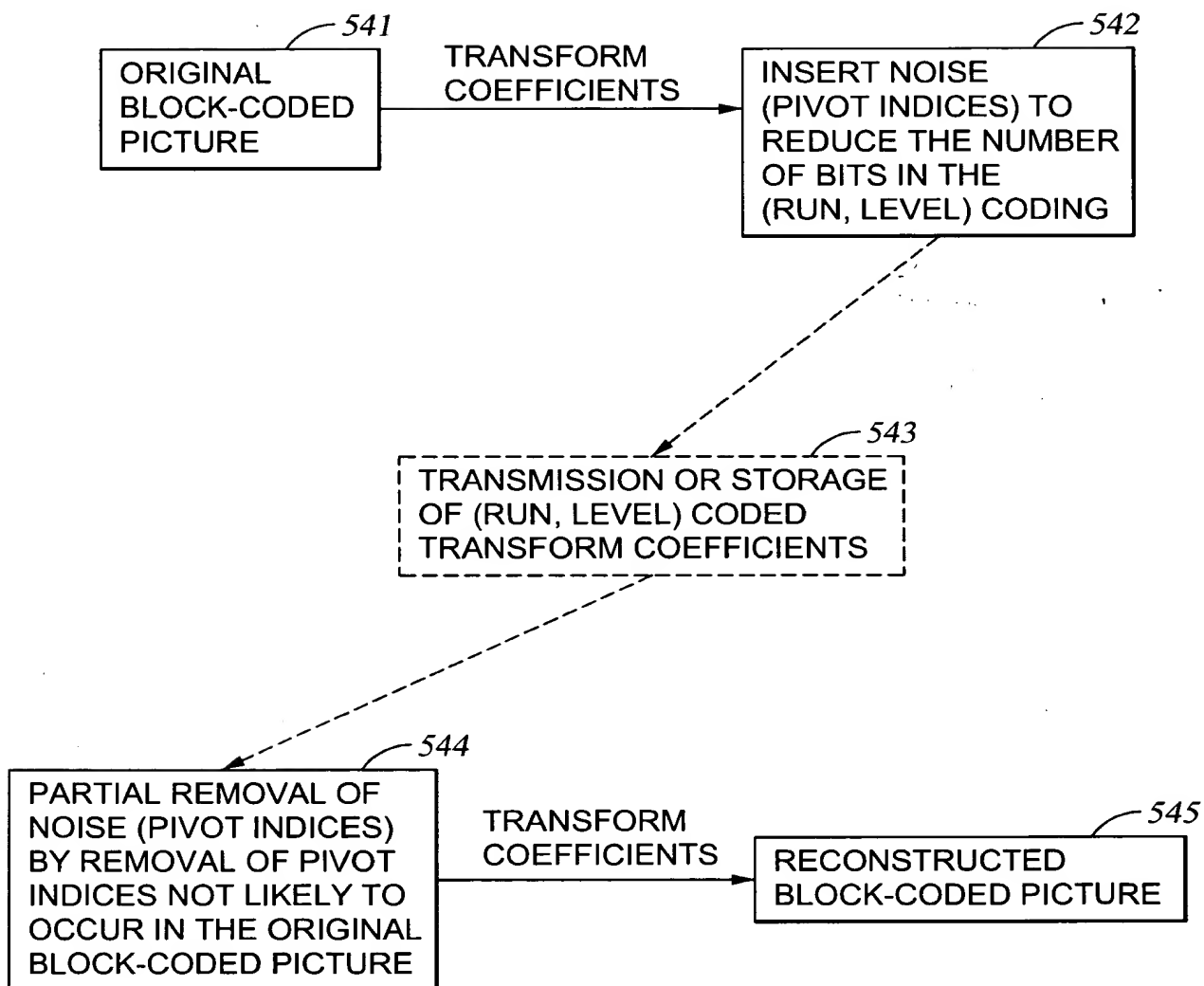
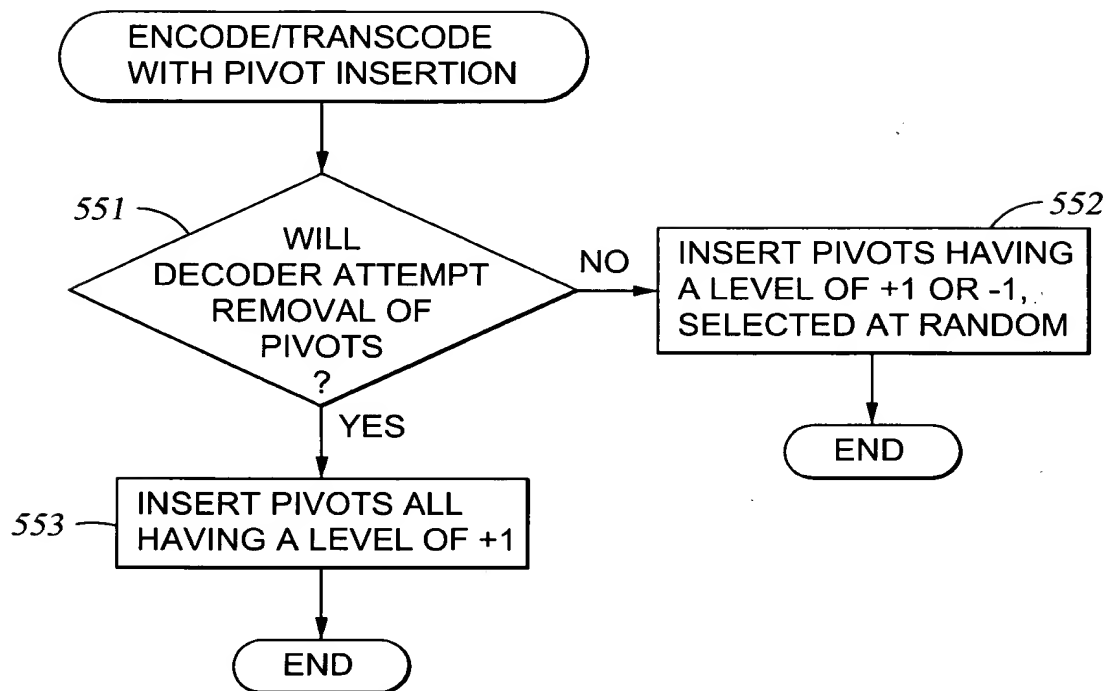
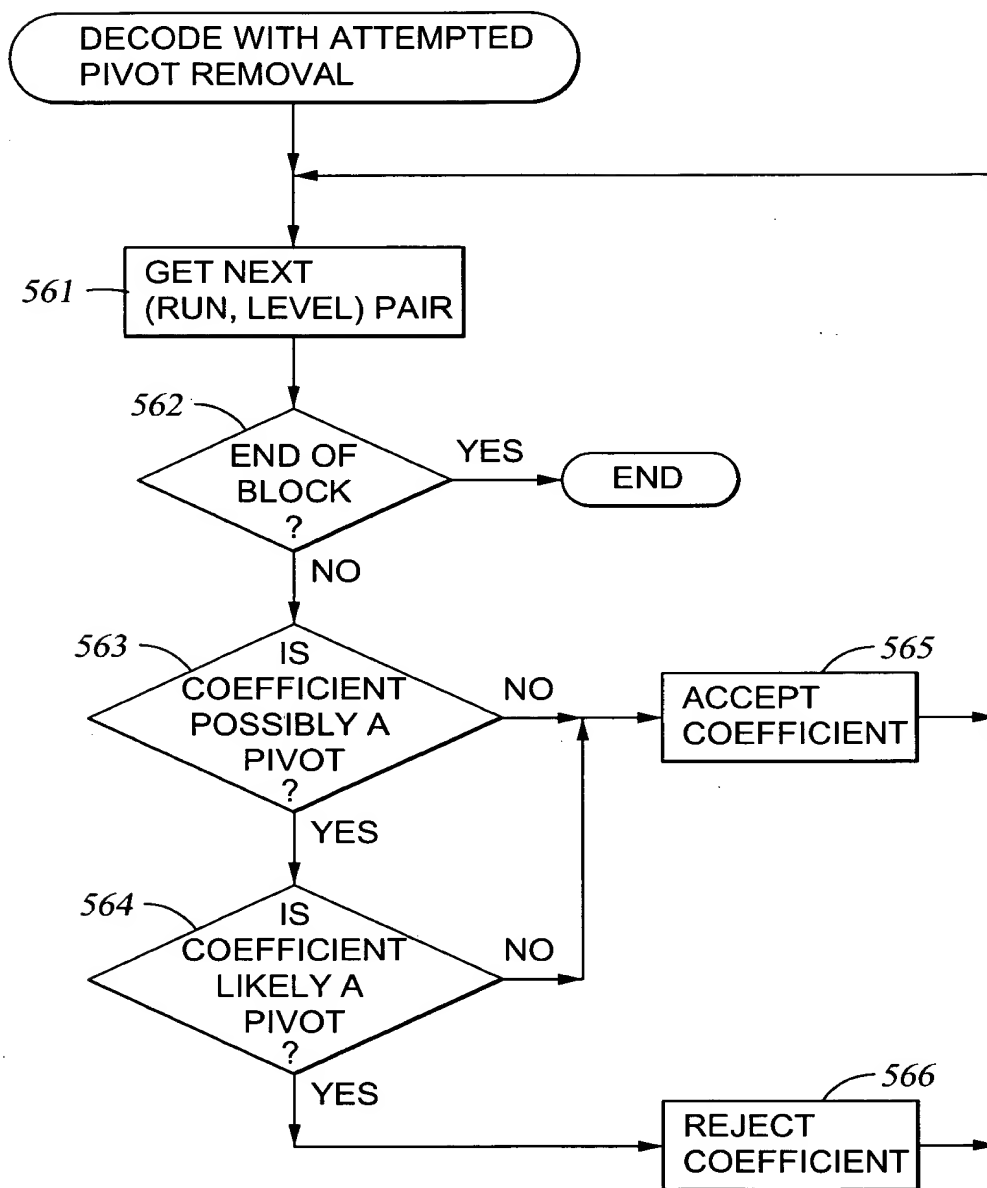
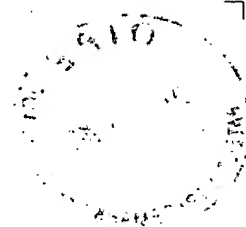
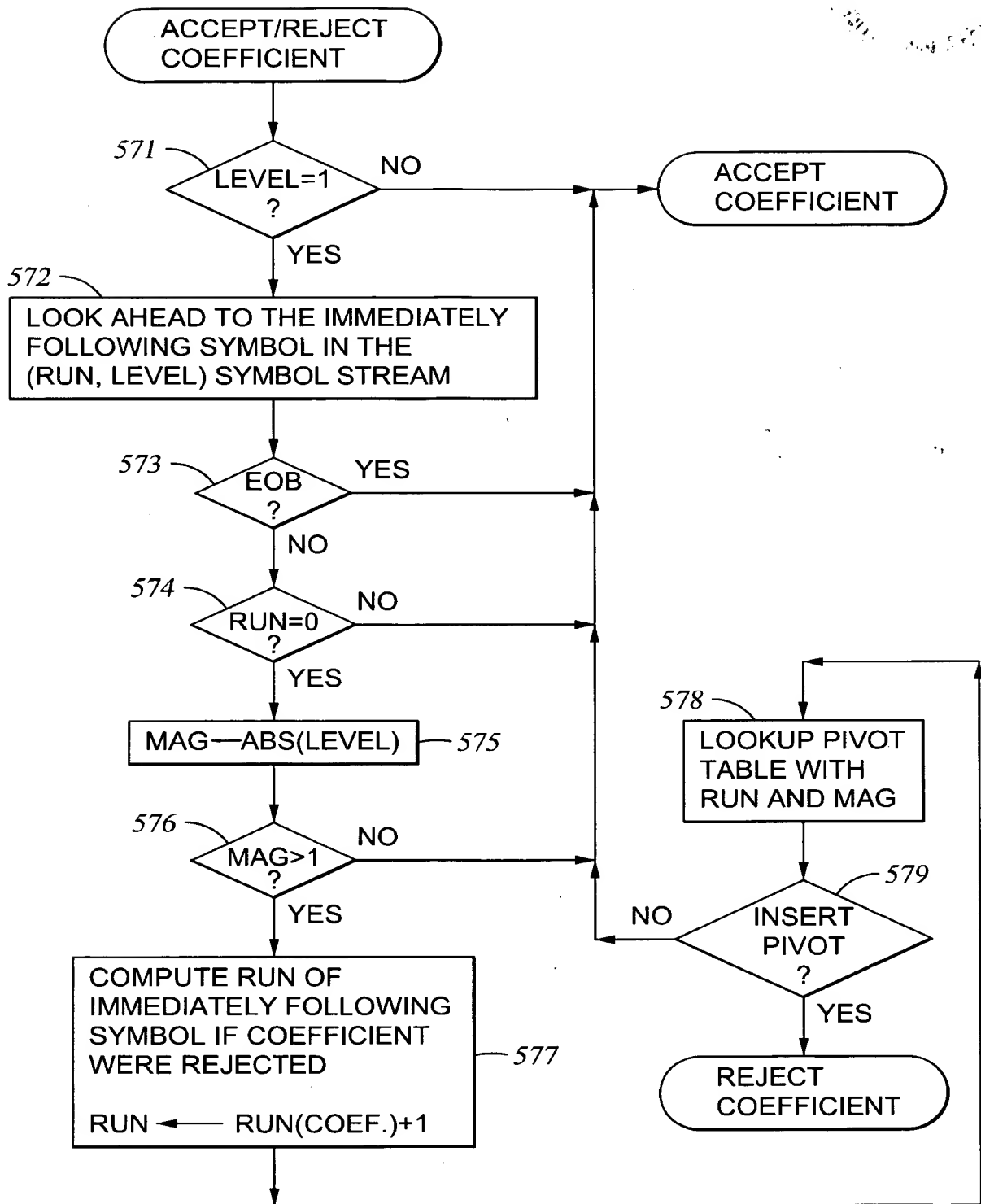


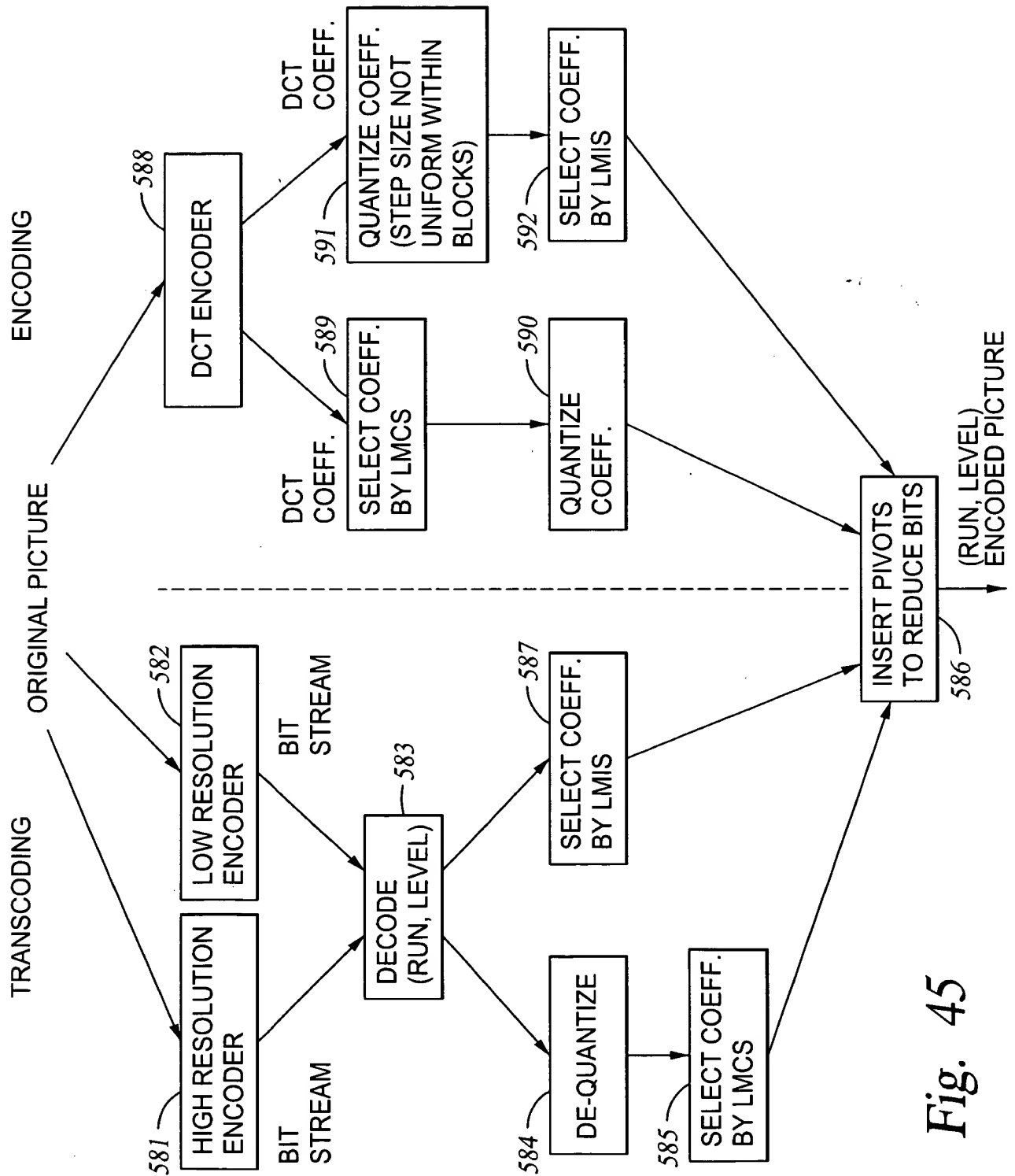
Fig. 40

*Fig. 41*

*Fig. 42*

*Fig. 43*

*Fig. 44*



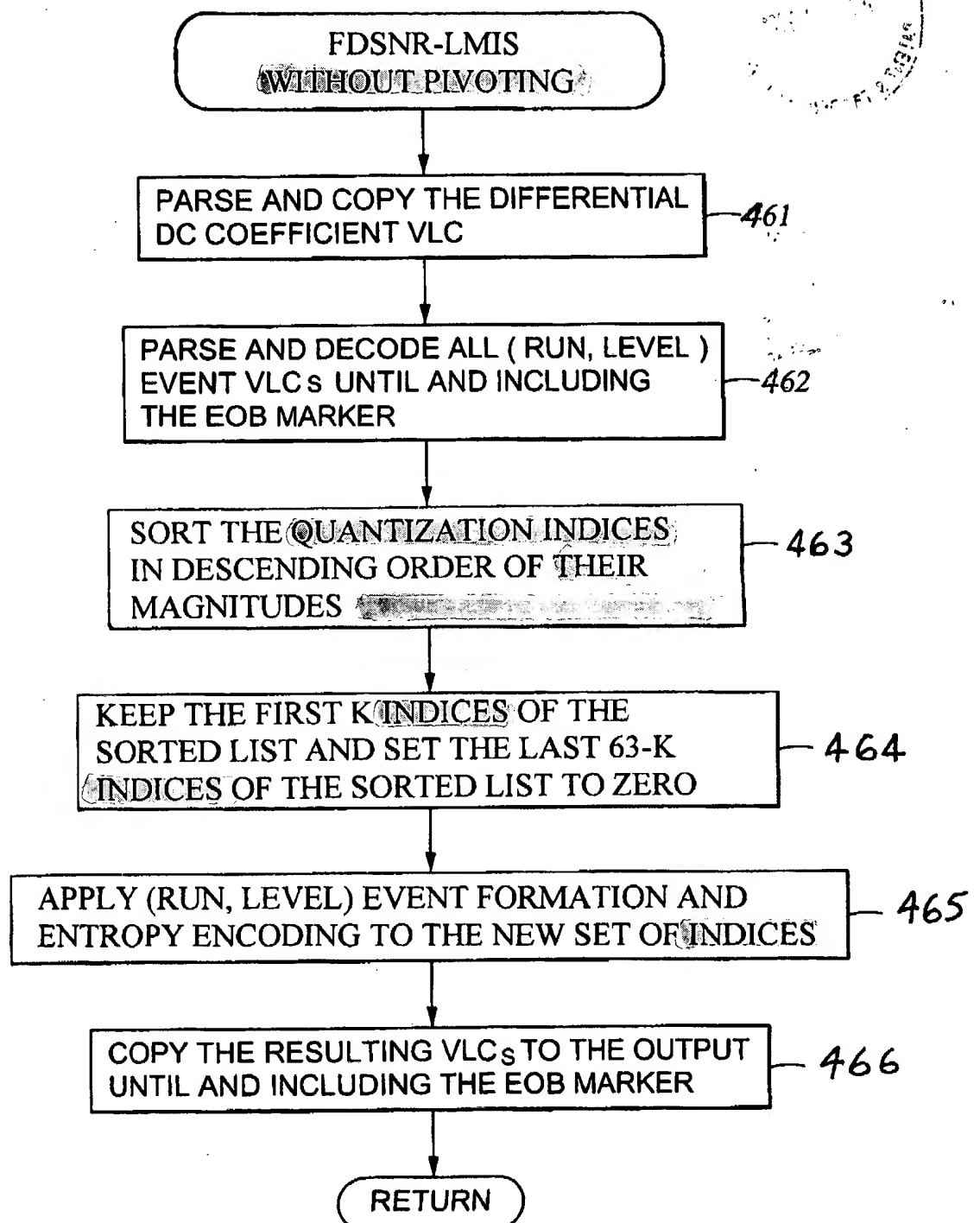


FIG. 30



REDUCTION OF THE NUMBER OF BITS FOR  
RUN-LEVEL ENCODING OF TRANSFORM  
COEFFICIENTS OF A BLOCK-CODED PICTURE

481

PIVOT-1 TECHNIQUE

SELECTIVELY RETAIN NON-QUALIFYING  
NON-ZERO AC COEFFICIENTS IN ORDER  
TO AVOID ESCAPE SEQUENCES

482

PIVOT-2 TECHNIQUE

REDUCE THE MAGNITUDE OF THE LEVEL OF  
THE RETAINED NON-QUALIFYING NON-ZERO  
AC COEFFICIENTS TO A VALUE OF ONE IN  
ORDER TO ELIMINATE MORE ESCAPE  
SEQUENCES AND TO REDUCE THE NUMBER  
OF BITS FOR (RUN, LEVEL) ENCODINGS

483

PIVOT-3 TECHNIQUE

AVOID ESCAPE SEQUENCES AND/OR REDUCE  
THE NUMBER OF BITS FOR (RUN, LEVEL)  
ENCODING BY SELECTIVELY INSERTING A  
NOISE COEFFICIENT OF LEVEL MAGNITUDE  
EQUAL TO ONE (I.E., A PIVOT POINT WHICH IS A  
ZERO-VALUE AC COEFFICIENT IN THE  
ENCODING OF THE ORIGINAL PICTURE) IN THE  
SCAN ORDER JUST BEFORE EACH QUALIFYING  
NON-ZERO AC COEFFICIENT

FIG. 33

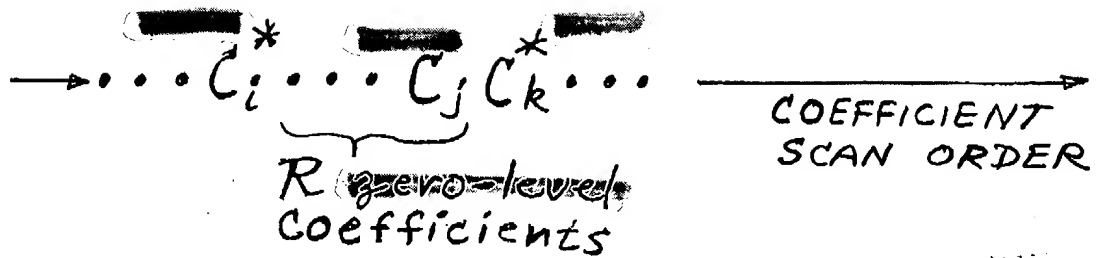


FIG. 36

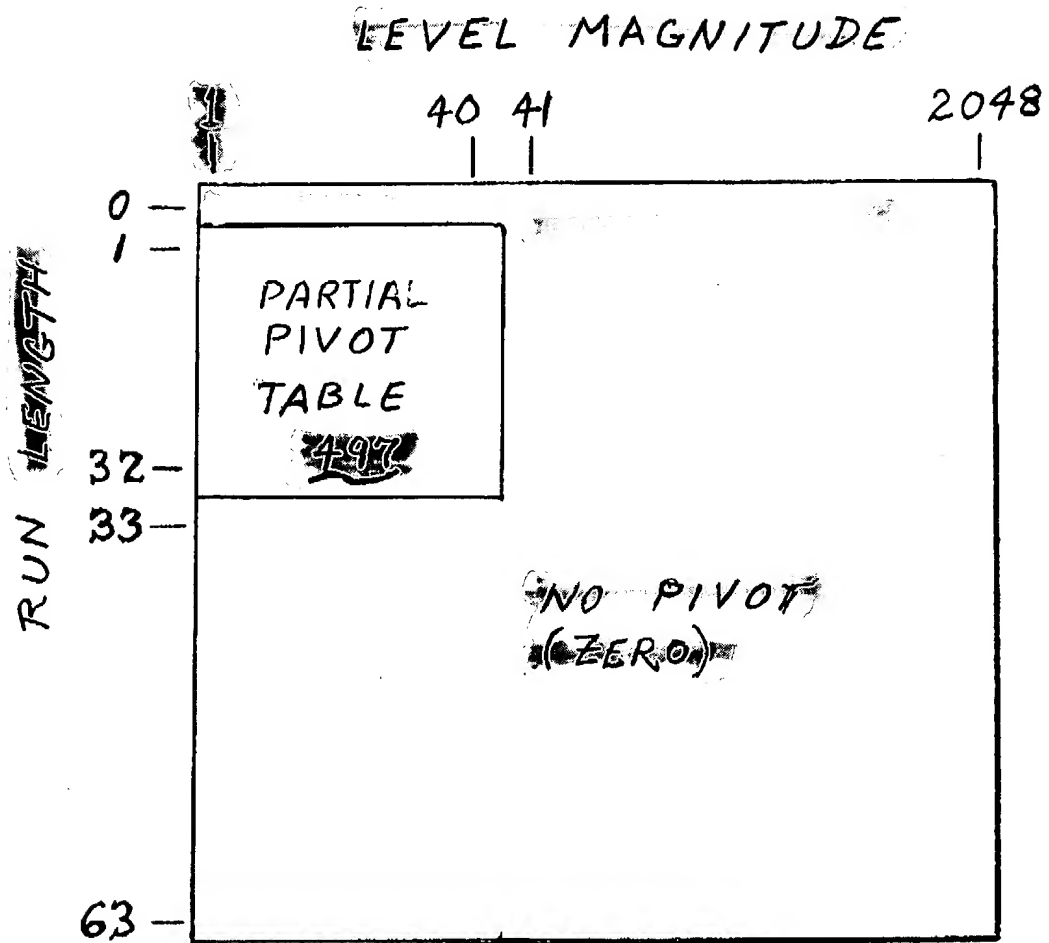


FIG. 37

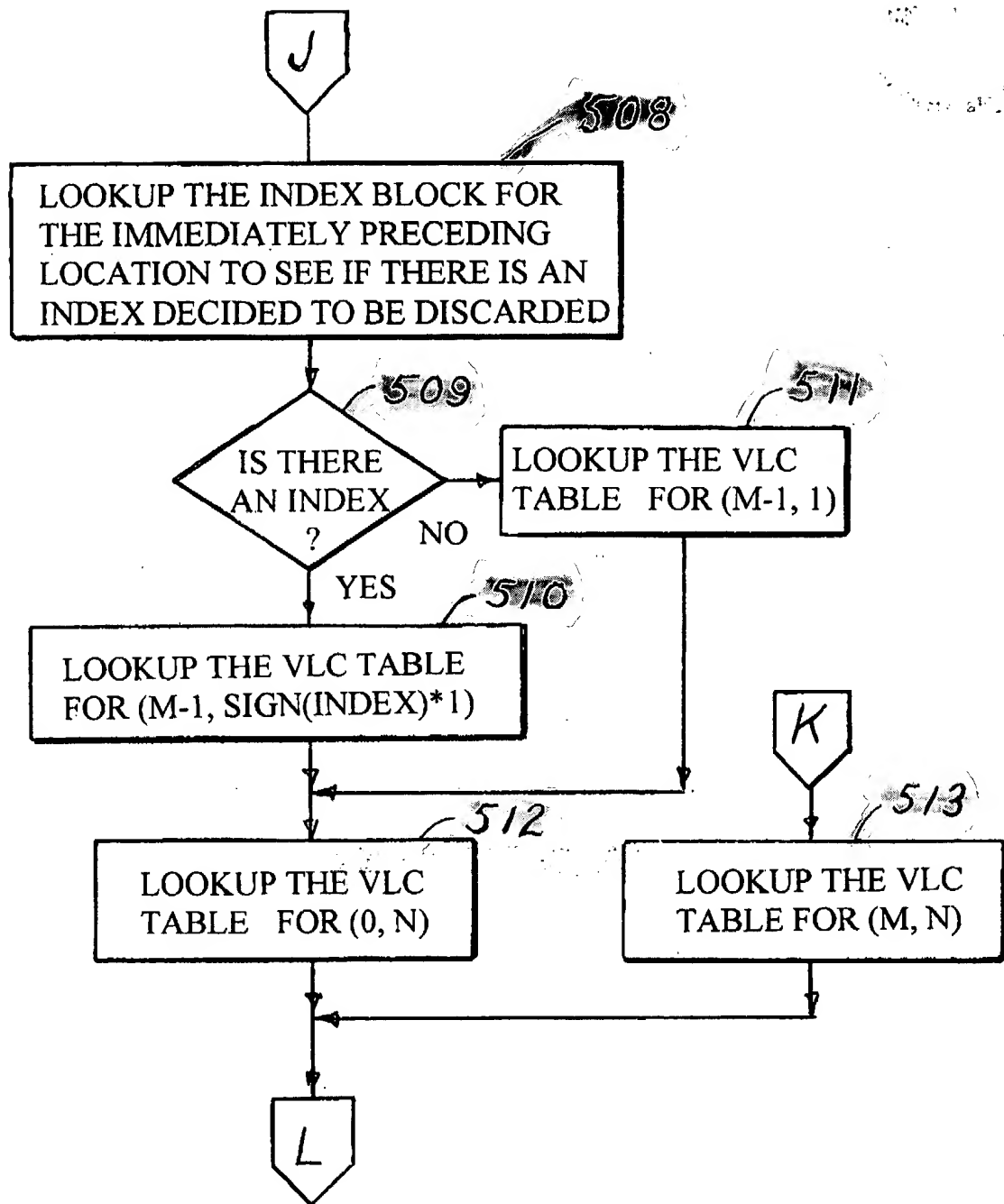


FIG. 39

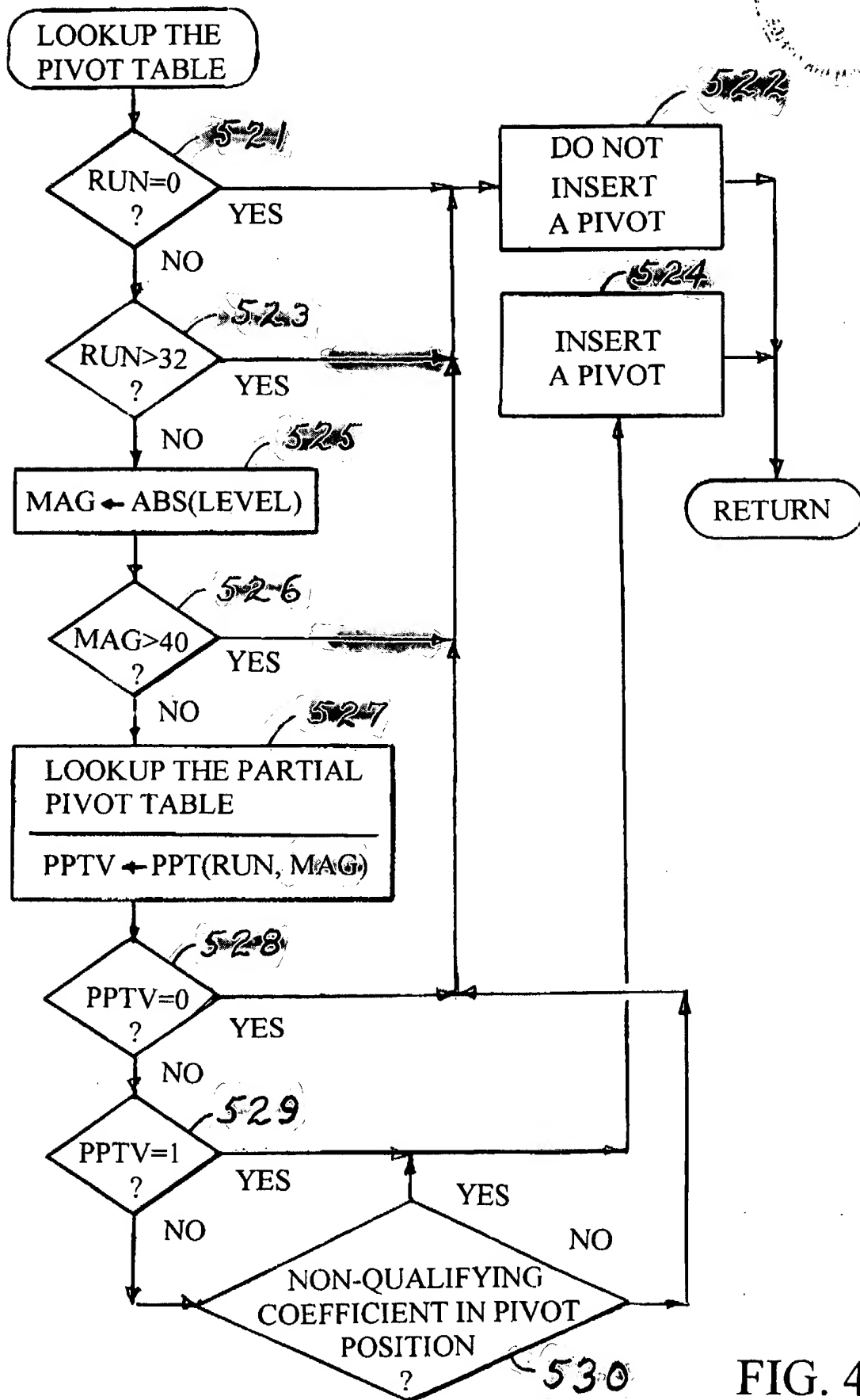


FIG. 40

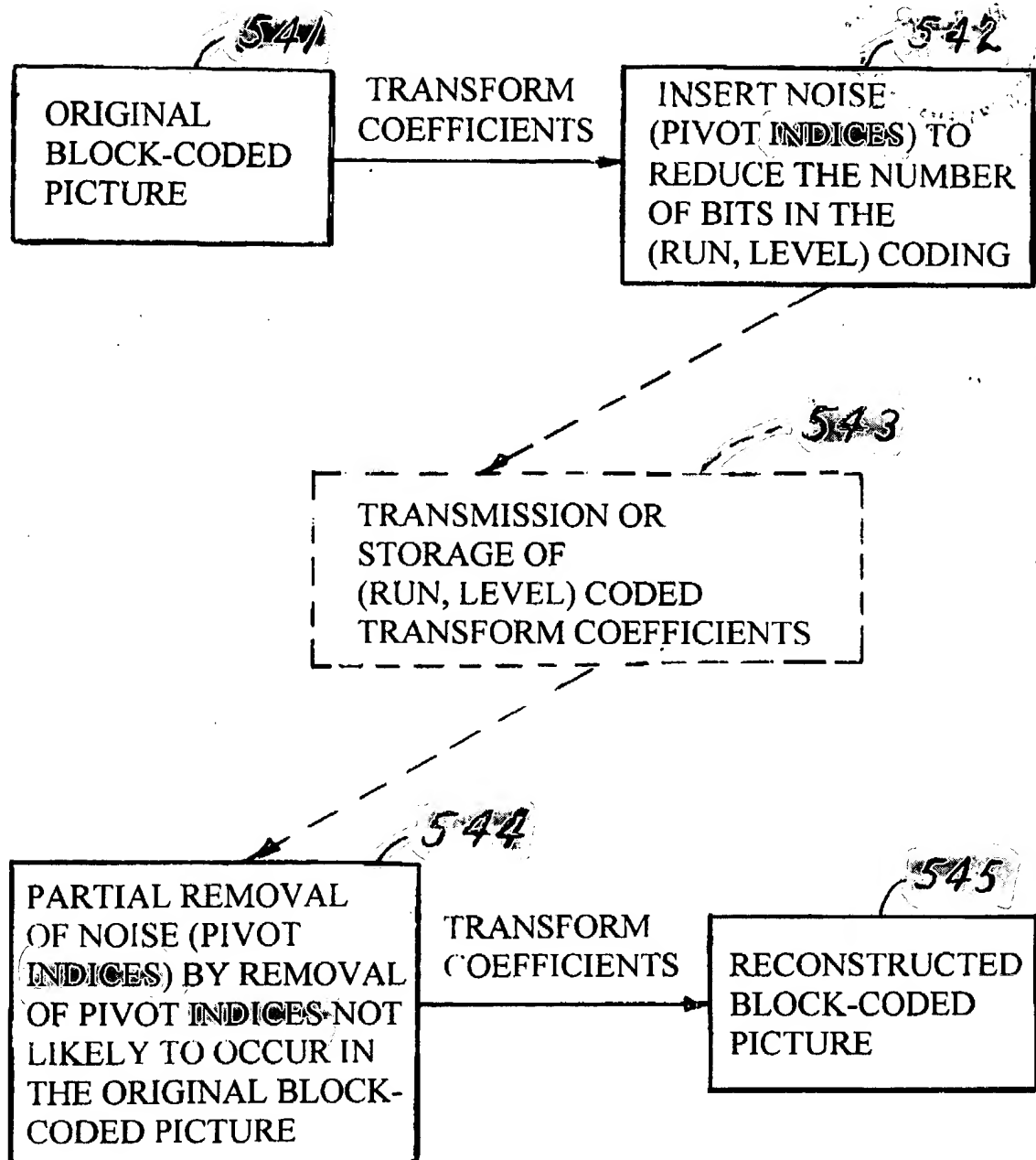


FIG. 41